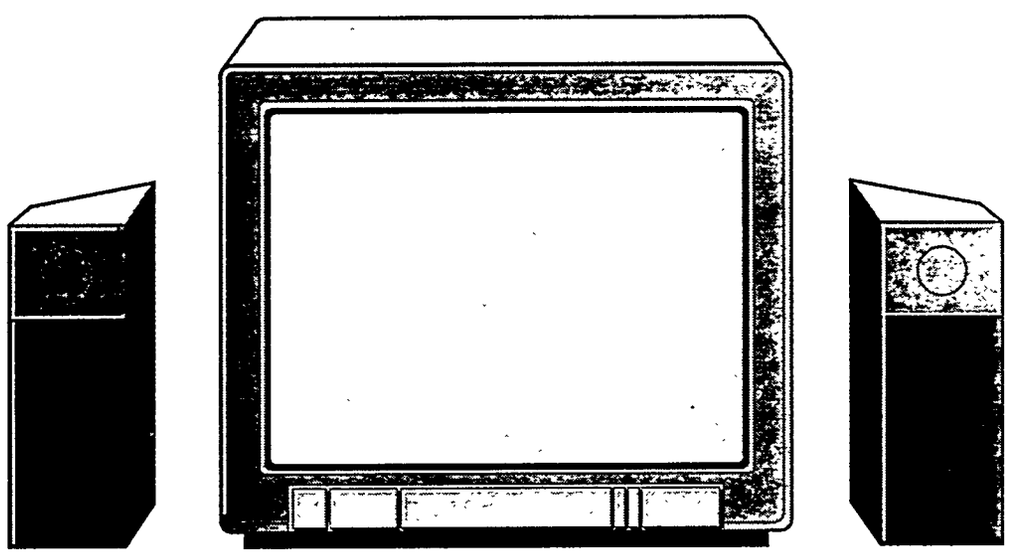
PHILIPS

MATCH LINE

D2 MAC



28DC2271

COLOUR TELEVISION
WITH INTEGRATED D2-MAC SATELLITE RECEIVER

English

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To store additional satellite TV stations
To check the PROGRAMME LIST
To store Teletext personal preference pages
To store your own personal preference settings

Technical Information Page 32

Write in pencil your land-based TV station (or device) selections here:

No.	TV station/device
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	

No.	TV station/device
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	

No.	TV station/device
40	
41	
42	
43	
44	
45	
46	
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52	
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59	

Table of land-based TV frequencies

VHF BAND I *

Channel	Frequency (MHz)
A	45.75
E2	48.25
2A	49.75
B	53.75
E3	55.25
2	55.75
3	60.50
C	61.75
E4	62.25
4	63.75
C	82.25

VHF BAND III *

Channel	Frequency (MHz)
S1	105.25
S2	112.25
B	116.75
S3	119.25
S4	126.25
C	128.75
S5	133.25
S6	140.25
D	140.75
S7	147.25
E	152.75
S8	154.25
S9	161.25
F	164.75
S10	168.25
D	175.25
E5	175.25
5	176.00
G	176.75
E6	182.25
E	183.25
E	183.75
6	184.00
H	188.75
E7	189.25
F	191.25
7	192.00
F	192.25

VHF BAND III *

Channel	Frequency (MHz)
E8	196.25
G	199.25
8	200.00
I	200.75
G	201.25
E9	203.25
H	207.25
9	208.00
E10	210.25
J	212.75
I	215.25
10	216.00
E11	217.25
J	223.25
E12	224.25
K	224.75
S11	231.25
L	236.75
S12	238.25
S13	245.25
M	248.25
S14	252.25
S15	259.25
N	260.75
S16	266.25
0	272.75
S17	273.25
S18	280.25
P	284.75
S19	287.25
S20	294.25
Q	296.75

UHF BAND IV-V

Channel	Frequency (MHz)
21	471.25
22	479.25
23	487.25
24	495.25
25	503.25
26	511.25
27	519.25

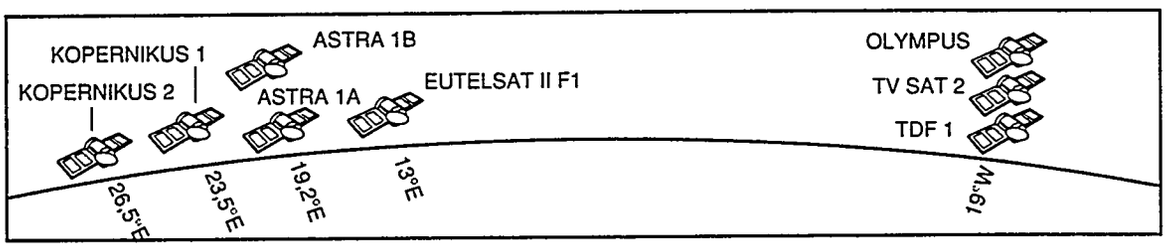
UHF BAND IV-V

Channel	Frequency (MHz)
28	527.25
29	535.25
30	543.25
31	551.25
32	559.25
33	567.25
34	575.25
35	583.25
36	591.25
37	599.25
38	607.25
39	615.25
40	623.25
41	631.25
42	639.25
43	647.25
44	655.25
45	663.25
46	671.25
47	679.25
48	687.25
49	695.25
50	703.25
51	711.25
52	719.25
53	727.25
54	735.25
55	743.25
56	751.25
57	759.25
58	767.25
59	775.25
60	783.25
61	791.25
62	799.25
63	807.25
64	815.25
65	823.25
66	831.25
67	839.25
68	847.25
69	855.25

* Not applicable for the U.K.

Table of Satellite TV Programmes

(as of February 1990)



Program number	Program name	Satellite	Stored Name.	Freq.	Polar-isation	Freq. Band	System	Sound	Sound Deviation	Sound De-emphasis
1	Canal enfant	TDF 1	CE EM	1054	R	II	D2-MAC (N)	FRENCH		
2	Euro music La sept	19.0W	SEPT	1131	R	II	D2-MAC (N)	FRENCH		
3	Canal plus Germany		CANPG	1208	R	II	D2-MAC (N)	FRENCH		
4	Canal plus France		CANPF	1284	R	II	D2-MAC (N)	FRENCH		
6	RTL-plus	TVSAT2	RTL	997	L	II	D2-MAC (N)	GERMAN		
7	SAT 1	19.0W	SAT1	1073	L	II	D2-MAC (N)	GERMAN		
8	3SAT		3SAT	1150	L	II	D2-MAC (N)	GERMAN		
9	1PLUS		1PLUS	1304	L	II	D2-MAC (N)	GERMAN		
10	BBC 1	OLYMPUS	BBC 1	1342	R	II	D2-MAC (N)	ENGLISH		
11	RAI	19.0W	RAI	1419	L	II	PAL (W)	MONO	50 kHz	50/75us
15	Screensport	ASTRA 1A	SC SP	1214	H	I	PAL (N)	MONO	50 kHz	50/75us
16	Eurosport	19.2E	EU SP	1258	V	I	PAL (N)	MONO	50 kHz	50/75us
17	Lifestyle/ Childr.ch.		LS CH	1273	H	I	PAL (N)	STEREO	50 kHz	50/75us
18	MTV-Europe		MTV	1421	H	I	PAL (N)	STEREO	50 kHz	50/75us
19	Sky-ONE		SKY	1317	V	I	PAL (N)	STEREO	50 kHz	50/75us
20	Sky-news		SKY N	1376	V	I	PAL (N)	STEREO	50 kHz	50/75us
22	RTL-plus		RTL	1229	V	I	PAL (N)	STEREO	50 kHz	50/75us
23	SAT1		SAT1	1288	V	I	PAL (N)	STEREO	50 kHz	50/75us
24	PRO7		PRO7	1406	V	I	PAL (N)	STEREO	50 kHz	50/75us
25	RTL-Veronique		RTL V	1391	H	I	PAL (N)	STEREO	50 kHz	50/75us
30	SAT1	KOPERNIKUS 1	SAT1	1475	H	II	PAL (W)	MONO	50 kHz	50/75us
31	3SAT	23.0E	3SAT	1525	H	I	PAL (W)	MONO	50 kHz	50/75us
32	1PLUS	11 GHz	1PLUS	1625	H	I	PAL (W)	MONO	50 kHz	50/75us
33	RTL		RTL	1675	H	II	PAL (W)	MONO	50 kHz	50/75us
34	PRO 7	12 GHz	PRO7	1084	H	II	PAL (W)	MONO	50 kHz	50/75us
35	WEST 3		WEST3	1184	V	II	PAL (W)	MONO	50 kHz	50/75us
36			TELE5		H	II	PAL (W)	MONO	50 kHz	50/75us
37			BFS		V	II	PAL (W)	MONO	50 kHz	50/75us
40	CNN	INTELSAT VA F11	CNN	1155	V	I	PAL (W)	MONO	50 kHz	50/75us
41	Discovery	27.5W	DISCO	1175	H	I	PAL (W)	MONO	50 kHz	50/75us
42	Children's chanel		TCC	1015	H	I	PAL (W)	MONO	50 kHz	50/75us
43	Kindernet		KINDN	1135	H	I	PAL (W)	MONO	50 kHz	50/75us
45	Nor-sat	INTELSAT V F2	NORSA	969	H	I	PAL (W)	MONO	50 kHz	50/75us
46	TVN	1.0W	TVN	1016	H	I	PAL (W)	MONO	50 kHz	50/75us
50	RAI-UNO	EUTELSAT I F5	RAI 1	1010	H	I	PAL (W)	MONO	50 kHz	50/75us
51	RAI-DUO	10.0E	RAI 2	1640	H	I	PAL (W)	MONO	50 kHz	50/75us
52	TVE		TVE	1149	H	I	PAL (W)	MONO	50 kHz	50/75us
53	3SAT		3SAT	986	V	I	PAL (W)	MONO	50 kHz	50/75us
61	SAT 1	EUTELSAT I F4	SAT1	1508	V	I	PAL (W)	MONO	50 kHz	50/75us
62	TVE	13.0E	TV5	1472	H	I	PAL (W)	MONO	150 kHz	J17
63	Worldnet		WORLD	1491	H	I	PAL (W)	MONO	50 kHz	J17
64	Eurosport		EU SP	1650	H	I	PAL (W)	MONO	50 kHz	50/75us
65	SUPER		SUPER	1674	V	I	PAL (W)	STEREO	50 kHz	50/75us
66	NORDIC		NORDI	1140	V	I	PAL (W)	MONO	50 kHz	50/75us

Note:

Frequency band I = 11.000 GHz - 11.750 GHz
Frequency band II = 11.750 GHz - 12.500 GHz or 12500 GHz - 12.750 GHz

The above list of TV programmes have been stored for your convenience.
To receive the signals from all these satellites you will need a 'steerable' satellite dish.
Also some signals may be weak and require a large satellite dish to be received correctly.

This information is subject to change without notice.

Summary of controls and connections

Front

⏻	Switching the TV on/off
⏻	Green LED : TV switched on
⏻	Red LED :TV on standby
TXT	Green LED : Teletext switched on
RGB	Red LED : EXT 1 RGB switched on
◿ △	Volume up
◿ ▽	Volume down
P △	Higher programme number
P ▽	Lower programme number
◇	To start INSTALLATION procedure
🎧	Headphone input
● S-VHS AUDIO INPUT	Connections for camcorder

Rear

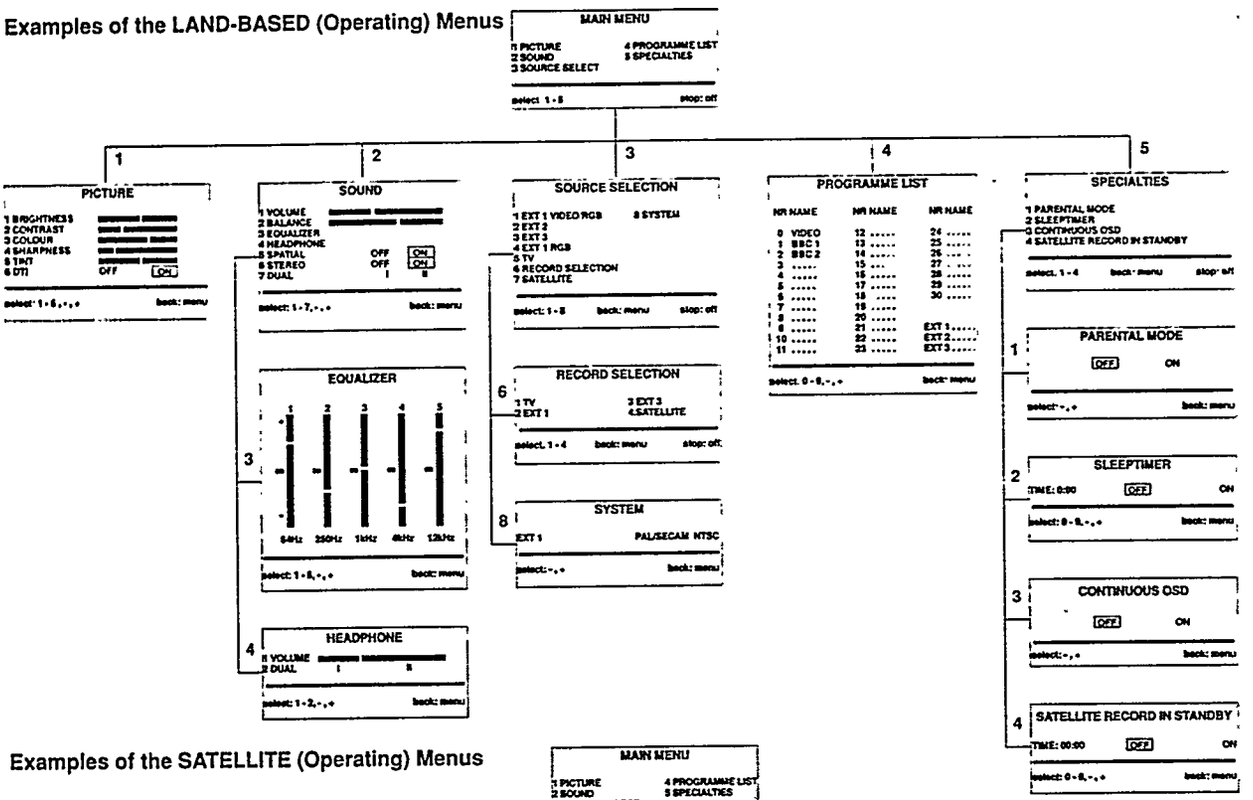
R FRONT	Connections for front right loudspeaker
FRONT L	Connections for front left loudspeaker
R AUDIO ◿	Right variable output for audio equipment
AUDIO ◿ L	Left variable output for audio equipment
	Aerial input
R REAR	Connections for rear right loudspeaker
EXTERNAL 1	Euroconnector for Camcorder, CDV player or computer
REAR L	Connections for rear left loudspeaker
VIDEO EXTERNAL 2	Euroconnector for video recorder
R AUDIO IN	Right audio input for Super-VHS video recorder
AUDIO IN L	Left audio input for Super VHS video recorder
VIDEO IN SVHS	Video input for Super-VHS video recorder
R AUDIO OUT	Right audio output for Super-VHS video recorder
AUDIO OUT L	Left audio output for Super-VHS video recorder
VIDEO OUT SVHS	Video output for Super-VHS video recorder
ANTENNA INPUT	Connection for satellite dish
POLARISER	Connection for polariser from satellite dish

Remote control

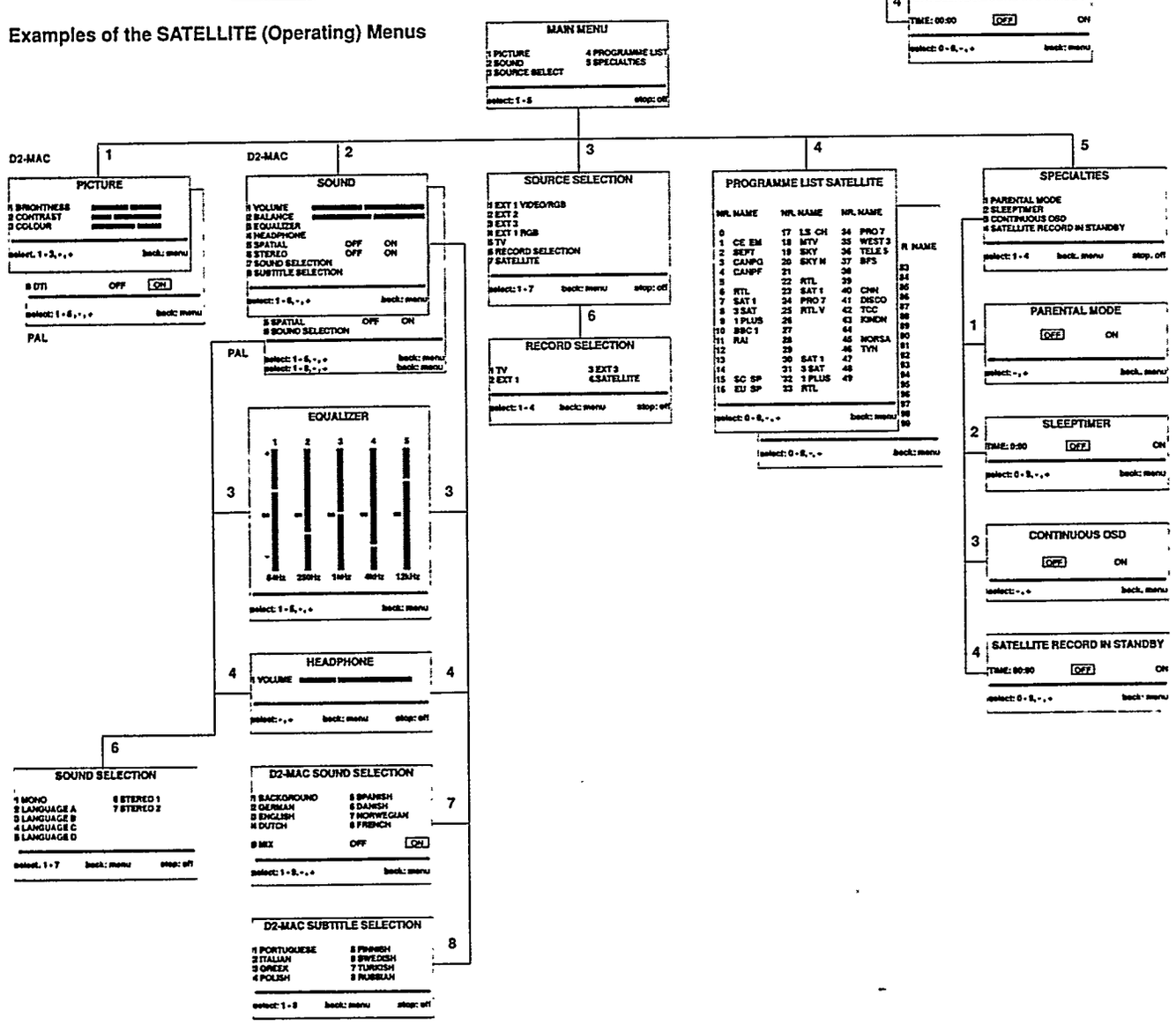
PP	Recalling standard picture and sound settings
1	Displaying pictures from equipment connected via EXTERNAL 1
2	Displaying pictures from equipment connected via EXTERNAL 2
⏻	Switching to Standby
▢	Selecting land-based TV Stations
▤	Switching teletext on/off
	Selecting Satellite TV stations
0-9	Digit buttons
	Muting the sound
-/--	Selector button for 1-or 2-digit programme numbers
	Displaying the next Teletext page
△	Colour intensity (increase)
▽	Colour intensity (decrease)
△	Brightness (increase)
▽	Brightness (decrease)
P △	Higher programme numbers
P ▽	Lower programme numbers
◿ +	Turning up the volume
◿ -	Turning down the volume
MENU	Switching on MAIN MENU or returning to previous menu
	Displaying programme number, programme name and sleeptimer (if switched on)
-	Changing the settings in menus
+	Changing the settings in menus
OFF	Switching off menus
	PIP ON/OFF button
	PIP move button
	PIP source selection button
	PIP freeze button
	PIP swap button
P △	Higher programme numbers (PIP)
P ▽	Lower programme numbers (PIP)
COLOURED BUTTONS	Teletext fast selection (RED, GREEN, YELLOW, BLUE)
	Displaying the time
	Double letter height for Teletext page
X	Switching off Teletext temporarily
	Teletext index page
	Stopping 'rotating' Teletext pages
?	Displaying concealed Teletext information
	Teletext and TV programme simultaneously. Subtitle on/off
	Displaying personal preference Teletext pages
	Picture-by-picture playback of video tape *
	Picture search reverse of video tape *
	Picture search forward (video tape) *
▷	Playing the video tape *
○	Recording on the video tape *
□	Stopping the video tape *
◁◁	Rewinding the video tape *
▷▷	Winding the video tape *
⏻	Switching to Standby (video recorder) *

* Press the button on the side of the remote control simultaneously for these functions.

Examples of the LAND-BASED (Operating) Menus



Examples of the SATELLITE (Operating) Menus



Operating your TV

Introduction

Your new TV gives you extremely high quality sound and pictures from satellite and land-based TV broadcasts. Both D2-MAC and PAL satellite TV broadcasts can be received; giving you a much wider choice of TV programmes.

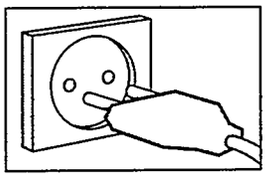
The new D2-MAC standard gives you:
- Extremely high quality stereo sound;
- Extremely high quality colour pictures;
- Multi-language broadcast choices;
- Multi-language subtitle choices.

Your new TV also has the following features:
- Menu selection of all possibilities;
- On-Screen-Displays (OSD) of the selected options;
- Teletext (from land-based or satellite TV broadcasts);
- Connections for video recorders and audio equipment;
- Multi-function remote control;
- Two loudspeakers for stereo sound;
- Recording from the satellite tuner in standby mode;
- PIP (picture in picture) facilities.

After your TV has been installed (see Section 2 - Installation Instructions) and then switched on, you can use the remote control to select all of the functions.

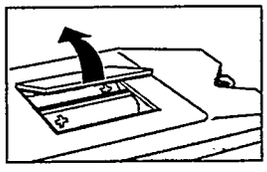
Connecting to the mains

Note: This TV is suitable for a mains voltage of 220 / 240 V ~, 50 Hz. Consult your dealer if the mains supply is different.



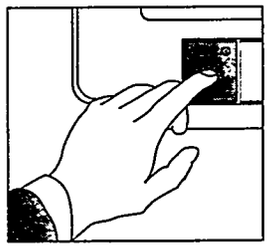
- Put the mains plug in the wall socket.

Inserting batteries in the remote control



- Remove the cover from the battery compartment, on the back of the remote control.
- Insert the 3 batteries (type LR03 - supplied).
- Replace the cover on the battery compartment.

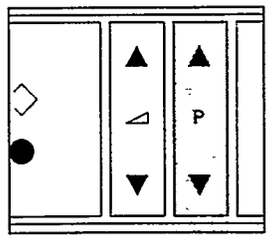
Switching on



- Press the ⏻ button on the front of the TV.

If the green lamp is on (and the TV screen shows a picture) then the TV is switched on.

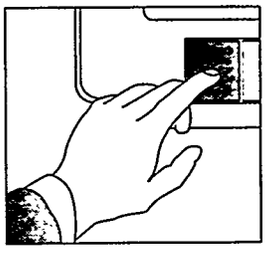
If the red lamp is on (and the TV screen does not show a picture) the TV is in standby mode.



- Press a digit button on the remote control or the ▼ or ▲ P button, on the TV or remote control.

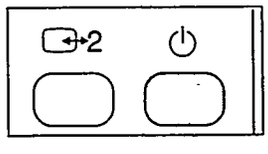
Note: If the TV buttons do not allow you to change programme numbers then parental mode is on. See the section 'Preventing children watching TV (Parental mode)'.

Switching off



- Press the ⏻ button on the front of the TV to switch off.

Switching to standby (directly)



- Press the ⏻ button.

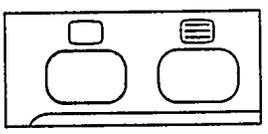
The red lamp is then on, and the TV is in standby mode.

Note: If the red lamp flashes slowly, the TV has been set to record satellite programmes during standby.

Operating your TV

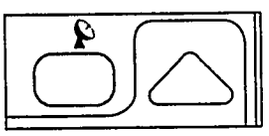
Selecting programme numbers (with the TV switched on)

For land-based TV broadcasts:



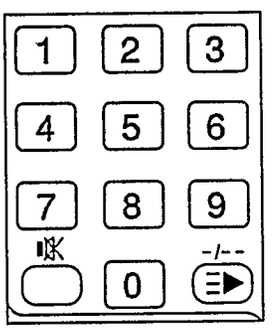
- Press the ▭ button.

For satellite TV broadcasts:



- Press the 📡 button.

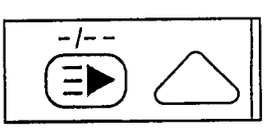
Then,



- Press a digit button (0-9) for programme numbers 0-9.

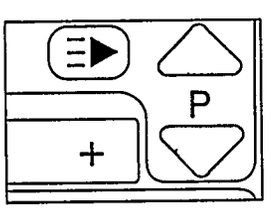
Note: If the -/-- button has already been pressed then it must be pressed again before the programme numbers (0-9) can be selected as single digits. You will see either - or -- on the screen.

Or,



- Press the -/-- button and then two digit buttons (0-9) for programme numbers 00-99.

Or,



- Press the ▲ or ▼ P button on the TV or remote control.

After a programme number for a TV station has been selected the number and the TV station name (if stored during installation) are shown on the screen for approximately 3 seconds.

Also one of the following may be shown if a stereo sound broadcast is available:

STEREO in white
- means stereo is on.

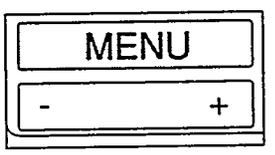
STEREO in red
- means stereo is off.

DUAL I or II
- means a two language broadcast, and the first or second language has been selected.

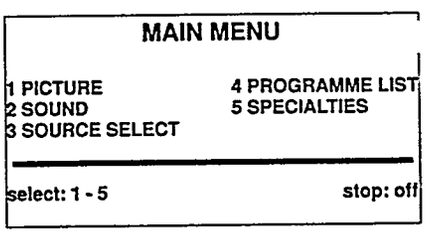
The MAIN MENU

All the features of this TV can be selected by using the appropriate menus.The number of items shown in each menu (for example : the PICTURE menu) depends on what is transmitted by the TV station.

To select the MAIN MENU

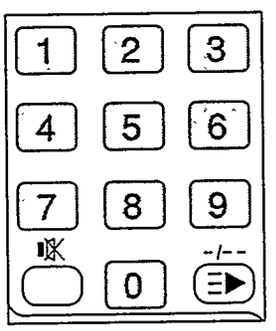


- Press the **MENU** button so that the MAIN MENU is shown:



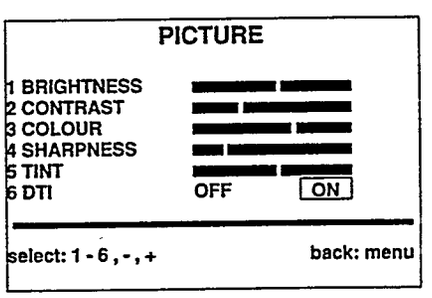
Changing picture settings

The PICTURE menu allows you to temporarily change all the picture settings.

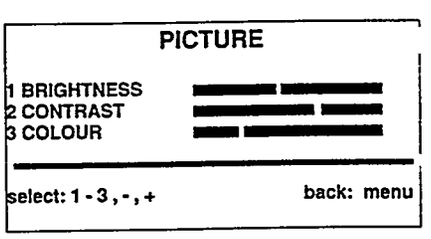


- Press **1** to select the PICTURE menu.

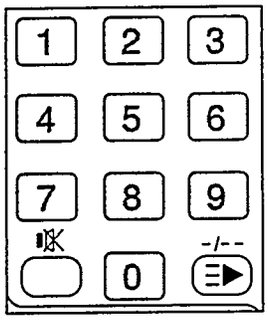
For land-based and PAL satellite TV broadcasts the following PICTURE menu is shown, for example:



For D2-MAC satellite TV broadcasts the following PICTURE menu is shown:

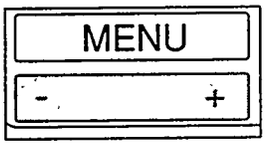


Operating your TV



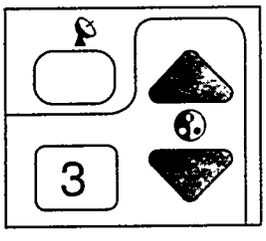
To change a picture setting

- Press the appropriate digit button for the setting, so that it is highlighted on the screen by a yellow bar.



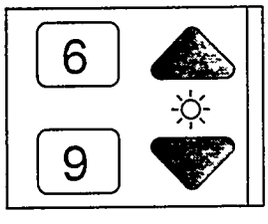
- Use the - or + button to decrease or increase the value of the picture setting.
You will immediately see the effect of these changes on the TV picture.

The picture settings:



Note: You can change the COLOUR and BRIGHTNESS settings directly on the remote control using the ◐ and ☼ buttons.

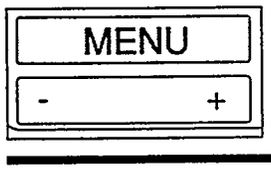
- The BRIGHTNESS, CONTRAST and COLOUR selections are available for both satellite and land-based TV broadcasts
- The SHARPNESS setting is only available for land-based TV broadcasts and PAL satellite broadcasts.
- The TINT setting is only available for land-based TV broadcasts using the NTSC system.
- The DTI (Digital Transient Improvement) is only available for land-based TV broadcasts and PAL satellite broadcasts. It can be selected to be on or off using the - or + buttons.



Note: If you change the COLOUR setting for D2-MAC satellite TV programmes this will also change the colour recorded using EXT 2 (the connection for your video recorder).

To return to the MAIN MENU

- Press the **MENU** button again.

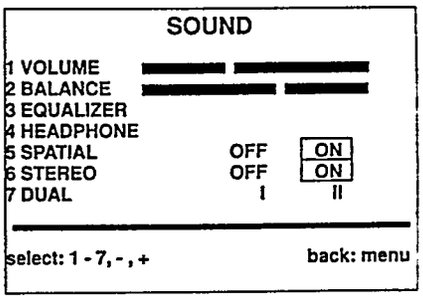


Changing sound settings

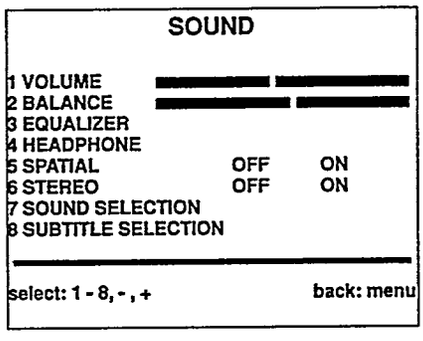
The SOUND menu allows you to temporarily change all the sound settings.

- Press **2** (in the MAIN MENU) to select the SOUND menu.

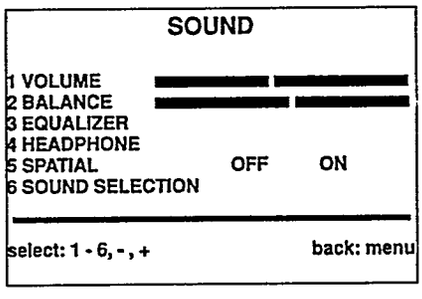
For land-based TV broadcasts the following SOUND menu is shown, for example:



For D2-MAC satellite TV broadcasts the following SOUND menu is shown, for example:



For PAL satellite TV broadcasts the following SOUND menu is shown, for example:

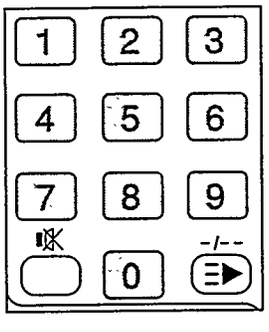


To change a sound setting

- Press the appropriate digit button for the setting.

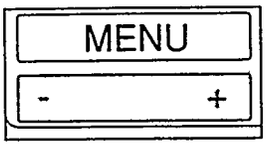
Either

Another menu is shown in which you must select an appropriate digit button to highlight your selection and then use the - or + button to change the value of the sound setting.



Or,

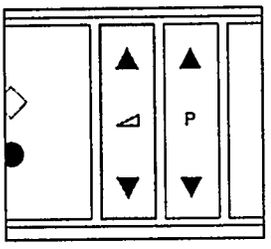
- Press the - or + button to decrease or increase the value of the setting, or to switch the setting off or on.
You will immediately hear the effect of these changes on the TV sound.



Operating your TV

The sound settings:

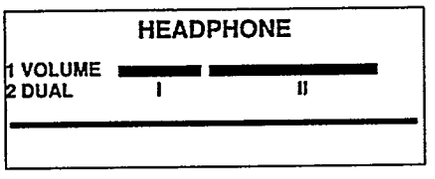
- The VOLUME can be changed in the SOUND menus for both satellite and land-based TV broadcasts.



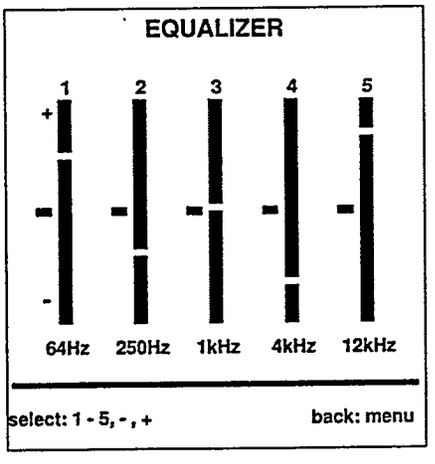
Note: You can also change the VOLUME directly on the TV or remote control using the ▲ or ▼ ◿ (+ or -) (volume) buttons.

- The BALANCE of the sound (between the left and right loudspeakers) can be changed in the SOUND menus for both satellite and land-based TV broadcasts.

- The HEADPHONE menu (shown below) allows you to select the VOLUME, and which language (I or II) you want to hear if a DUAL sound broadcast is transmitted by a TV station. (DUAL will be shown on the screen when a land-based TV broadcast is selected which has a second language available).



-The EQUALIZER menu (shown below) allows you to select the amount of bass (64 and 250 Hz) and treble (4 and 12 kHz) sounds. The 1 kHz selection is usually used to 'pull out' voices from music. The number you select is highlighted in red. You can use the - or + button to change each setting.



- The SPATIAL selection can be on or off. This is a special effect which is used to give the impression that the sounds from the loudspeakers have moved further apart.

The STEREO selection can be on or off. You can hear this change only if the TV broadcast is in stereo.

- The DUAL selection can be I or II. You can use this selection to choose one of the two languages that are transmitted with a TV programme (DUAL will be shown on the screen when a land-based TV broadcast is selected which has a second language available).

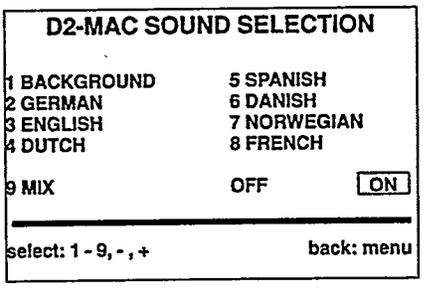
For D2-MAC satellite broadcasts

- The D2-MAC SOUND SELECTION menu can be selected if more than one sound language is broadcast. Inside the menu you will find the actual transmitted languages. It allows you to choose the language you want to hear; from a maximum of 8 different languages.

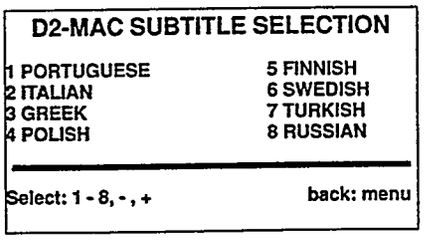
It also allows you to select whether you want to hear the BACKGROUND sounds (for example the crowd noises from a football match) and also whether you want to MIX the background sound with the language you have selected. The selected options will be shown on the screen below the programme number and name (i.e. the LANGUAGE, MIXED or NO MIX, and BACKGROUND).

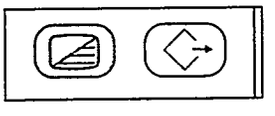
Note: The language you are hearing is highlighted in yellow.

For example:



- The SUBTITLE menu can be used to select from a maximum of 8 languages, as shown below, for example. The selected subtitle language is highlighted in yellow.





To select subtitles from a D2-MAC satellite broadcast (if subtitles are transmitted)

- Press the ◲ button.

To switch off

- Press the ◲ button again.

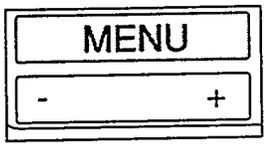
Operating your TV

For PAL satellite broadcasts
The SOUND SELECTION menu shows the following:

SOUND SELECTION	
1 MONO	6 STEREO 1
2 LANGUAGE A	7 STEREO 2
3 LANGUAGE B	
4 LANGUAGE C	
5 LANGUAGE D	
select: 1 - 7	back: menu stop: off

You can choose either MONO, LANGUAGE A, B, C, D or STEREO 1 or 2 (if they are available).

Displaying the TV programme list
You can recall a list of all the stored names and programme numbers of the TV stations selected during installation.



- Press the **MENU** button.

The MAIN MENU is shown:

MAIN MENU	
1 PICTURE	4 PROGRAMME LIST
2 SOUND	5 SPECIALTIES
3 SOURCE SELECT	
select: 1 - 5	stop: off

- Press **4** to select PROGRAMME LIST.

For land-based broadcasts
A TV programme list is shown on the screen, for example:

PROGRAMME LIST		
NR NAME	NR NAME	NR NAME
0 VIDEO	12	24 .....
1 BBC 1	13	25 .....
2 BBC 2	14	26 .....
3	15	27 .....
4	16	28 .....
5	17	29 .....
6	18	30 .....
7	19	
8	20	
9	21	EXT 1 .....
10	22	EXT 2 .....
11	23	EXT 3 .....
select: 0 - 9, - , +		back: menu

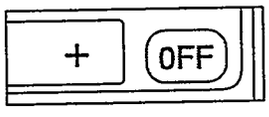
Note: The land-based programme numbers 31 to 59 do not have names stored.

For satellite broadcasts
A satellite TV programme list is shown on the screen:

PROGRAMME LIST SATELLITE					
NR.	NAME	NR.	NAME	NR.	NAME
0		17	LS CH	34	PRO 7
1	CE EM	18	MTV	35	WEST 3
2	SEPT	19	SKY	36	TELE 5
3	CANPG	20	SKY N	37	BFS
4	CANPF	21		38	
5		22	RTL	39	
6	RTL	23	SAT 1	40	CNN
7	SAT 1	24	PRO 7	41	DISCO
8	3 SAT	25	RTL V	42	TCC
9	1 PLUS	26		43	KINDN
10	BBC 1	27		44	
11	RAI	28		45	NORSA
12		29		46	TVN
13		30	SAT 1	47	
14		31	3 SAT	48	
15	SC SP	32	1 PLUS	49	
16	EU SP	33	RTL		
select: 0 - 9, - , +				back: menu	

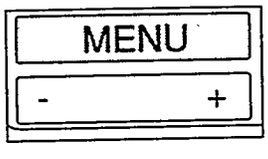
For the list of satellite programme numbers 50-99:

- Select a number (e.g. 51) using the digit buttons (0-9).



- Press **OFF** to quit the menus.

Preventing children watching TV (parental mode)
If you want to prevent children watching TV when you are not present, then you can electronically lock the TV by using the parental mode selection.You can take the remote control away from the TV to prevent children switching the parental mode off.



- Press the **MENU** button.

The MAIN MENU is shown.

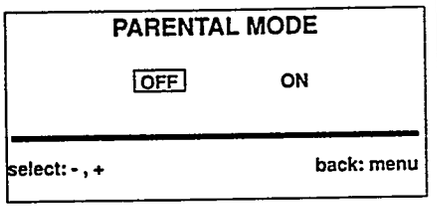
MAIN MENU	
1 PICTURE	4 PROGRAMME LIST
2 SOUND	5 SPECIALTIES
3 SOURCE SELECT	
select: 1 - 5	stop: off

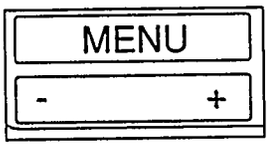
- Press **5** to select the SPECIALTIES menu. The SPECIALTIES menu is shown:

SPECIALTIES	
1 PARENTAL MODE	
2 SLEEPTIMER	
3 CONTINUOUS OSD	
4 SATELLITE RECORD IN STANDBY	
select: 1 - 4	back: menu stop: off

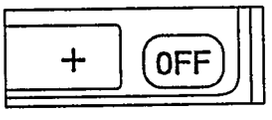
Operating your TV

● Press **1** to select PARENTAL MODE. The PARENTAL MODE menu is shown:



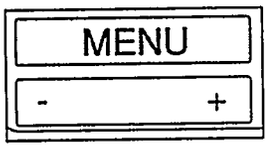


● Select on (or off) using the + (or -) button.

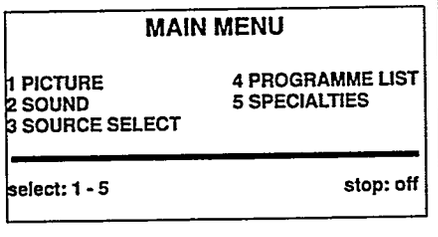


● Press the **OFF** button to quit the menus.

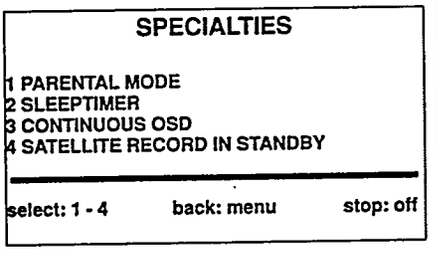
Switching to standby using the sleeptimer
The sleeptimer allows you to select a time period after which the TV automatically switches to standby (up to 9 hours and 59 minutes later).



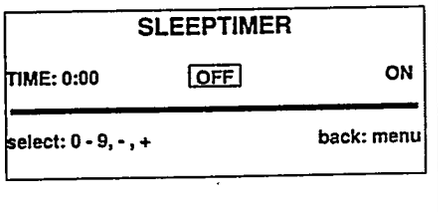
To select or cancel the sleeptimer
● Press the **MENU** button.
The MAIN MENU is shown.



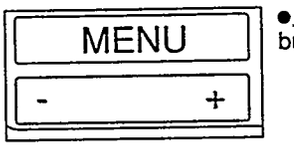
● Press **5** to select the SPECIALTIES menu.
The SPECIALTIES menu is shown:



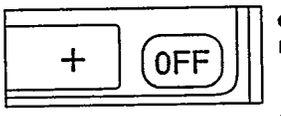
● Press **2** to select the SLEEPTIMER menu.



If you want to set the time:
● Select the time (in hours and minutes) using the digit buttons (0-9). Three numbers must be selected (e.g. 1 then 2, then 2 - for 1 hour and 22 minutes).



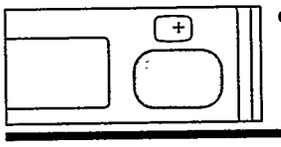
● Select on (or off) using the + (or -) button.



● Press the **OFF** button to quit the menus.

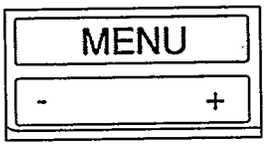
Note: During the last minute before the TV switches to standby, a red bar is shown which represents this last minute. The red bar gets shorter as time elapses. When the red bar is removed from the screen the TV switches to standby.

To check the remaining time before standby:

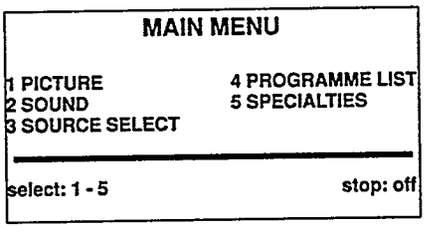


● Press the + button.

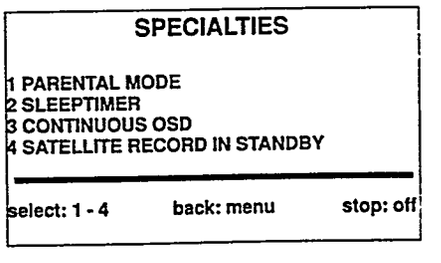
To switch on programme number information continuously



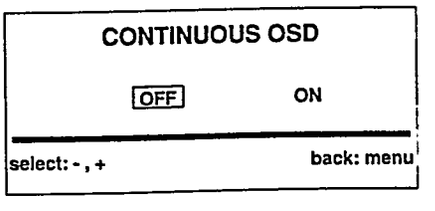
● Press the **MENU** button.
The MAIN MENU is shown:



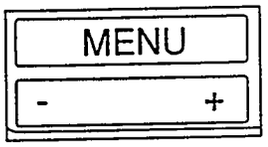
● Press **5** to select the SPECIALTIES menu.
The SPECIALTIES menu is then shown:



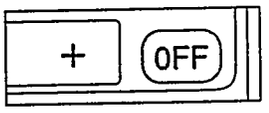
● Press **3** to select the CONTINUOUS OSD menu. The CONTINUOUS OSD menu is shown:



Operating your TV



- Select on (or off) using the + (or -) button.



- Press the **OFF** button to quit the menus.

Note: A programme number in green - means a land-based TV broadcast is selected.
A programme number in yellow - means a satellite TV broadcast is selected.

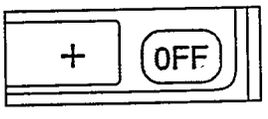
Recording from the satellite during standby

- Press **5** to select the SPECIALTIES menu in the MAIN MENU.
- Press **4** to select SATELLITE RECORD IN STANDBY so that the following menu is shown:

SATELLITE RECORD IN STANDBY		
TIME: 00:00	OFF	ON
select: 0 - 9, - , +		back: menu

To set the time that you want to record for (up to a maximum of 23 hrs and 59 minutes):

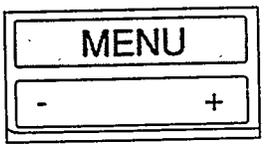
- Select the time in hours and minutes using the digit buttons (0-9).
Four numbers must be selected (e.g. 2359, for 23 hours and 59 mins).
- Select on (or off) using the + (or -) buttons.



- Press the **OFF** button to quit the menus.
- If you then switch the TV to standby after selecting 'on' the red standby lamp will flash. It will flash for the time selected. This warns you that you may be recording a satellite TV programme.

Note: Satellite is automatically selected for EXT 2 when the TV switches to standby.

Selecting an external SOURCE
During installation you may have connected other equipment (for example: a video recorder or CD-V player) to your new TV.



- Press the **MENU** button.

The MAIN MENU is shown.

MAIN MENU	
1 PICTURE	4 PROGRAMME LIST
2 SOUND	5 SPECIALTIES
3 SOURCE SELECT	
select: 1 - 5	stop: off

- Press **3** to select the SOURCE SELECTION menu.
The SOURCE SELECTION menu is shown:

SOURCE SELECTION	
1 EXT 1 VIDEO/RGB	8 SYSTEM
2 EXT 2	
3 EXT 3	
4 EXT 1 RGB	
5 TV	
6 RECORD SELECTION	
7 SATELLITE	
Select: 1 - 8	back: menu stop: off

If Euroconnector 1 (EXT 1) is used:

- Press **1** to select EXT 1 VIDEO/RGB.

If Euroconnector 2 (EXT 2) or the S-VHS connectors on the back of the TV (for a video recorder) are used:

- Press **2** to select EXT 2.

If the S-VHS audio/video connections on the front of the TV are used (for a camcorder):

- Press **3** to select EXT 3.

If a computer (with RGB connections) is to be connected to the TV:

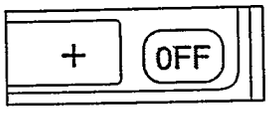
- Press **4** to select EXT 1 RGB

Then,
To select the system of the external source:

- Press **8** to select SYSTEM.

The SYSTEM menu is shown (for example):

SYSTEM	
EXT 1	PAL/SECAM NTSC
select: - , +	back: menu



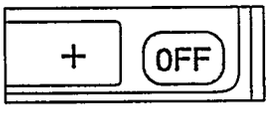
- Select PAL/SECAM or NTSC using the - or + buttons.
- Press the **OFF** button to quit the menus.

Operating your TV

Recording pictures from the TV or connected equipment
If your video recorder is connected to EXT 2, then you can select the source from which you can record.
- Press 3 to select SOURCE SELECTION in the MAIN MENU.
- Press 6 to select the RECORD SELECTION menu.

The RECORD SELECTION menu is shown:

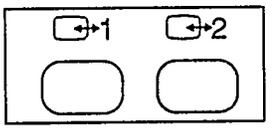
RECORD SELECTION	
1 TV	3 EXT 3
2 EXT 1	4 SATELLITE
select: 1 - 4	back: menu stop: off



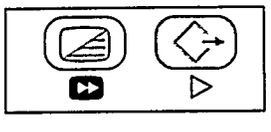
- Select either TV, EXT 1, EXT 3 or SATELLITE using the digit buttons (1-4).
- Press **OFF** to quit the menus.

Notes:
- The TV gives you up to 4 different picture signals for recording purposes: S-VHS, PAL, SECAM and NTSC. Check with your video recorder which of these signals it can use to record.

- It is possible to record from the satellite tuner during standby. See the section 'Recording from the satellite during standby'.

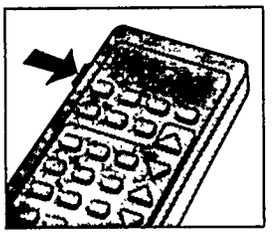


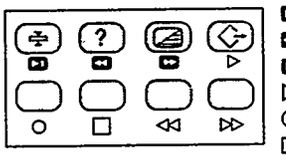
To playback recorded TV programmes
- Press the 2 button, to select EXT 2 for the video recorder.



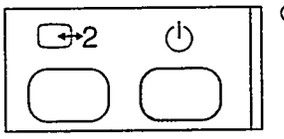
- Press the ▷ button (while holding the button on the side of the remote control) or press the PLAY (▷) button on your video recorder.

The following buttons can also be used with video recorders using the RC5 system:
- Press and hold the button on the side of the remote control, and then either:

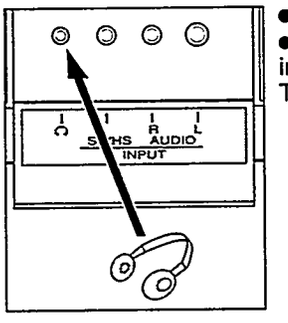




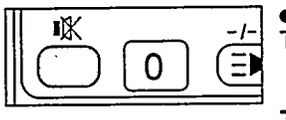
- for picture-by-picture advance
- for rewinding (with picture)
- for winding (with picture)
- ▷ for playback
- ○ for recording
- □ for stopping
- ◁◁ for rewinding
- ▷▷ for winding
- ⏻ for standby



To return to the TV programme
- Press the 🖵 or 📺 button.



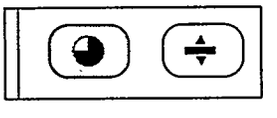
Using Headphones
- Open the flap on the front of the TV.
- Put the plug from the headphones into the 🎧 socket on the front of the TV.



Switching off (muting) the sound
- Press the 🔇 button.

The sound is then switched off.

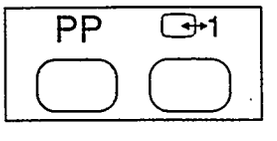
To switch the sound on again
- Press the 🔇 button, or the - or + ◿ button.



Displaying the time
The time from a TV station that transmits Teletext can be shown on the screen.
- Press the ◕ button.

The time is shown on the screen.
- Press the ◕ button again to switch off the time.

Recalling the stored personal preference settings
When you are watching TV you may decide to temporarily change the sound and picture settings. But you can recall the previously stored settings whenever you want.

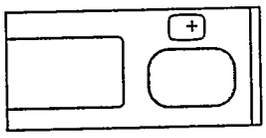


To recall the stored personal preference settings
- Press the **PP** button.

Note: To change the stored settings, see SECTION 2- to store your own personal preference settings.

Operating your TV

Selecting OSD (On-Screen-Display) information
Information is always available about the selected TV station and the stored or selected menu options.
For example: the programme number, its stored name, whether stereo sound is broadcast and for satellite TV broadcasts the language or subtitles selected.



To select OSD information
- Press the ⊡ button to see the OSD information.

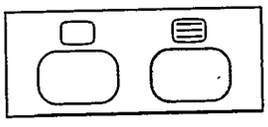
To select additional OSD information (for D2-MAC satellite TV broadcasts)
- Press and hold the ⊡ button.

To switch off the OSD information
- Press the ⊡ button again.

Using Teletext

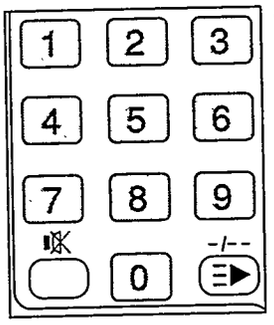
Introduction
Your new TV allows you to see Teletext information pages from both land-based and satellite TV broadcasts.

There are 4 main Teletext standards used by European land-based and satellite Teletext broadcasts:
- WST (World Standard Teletext) is available in most countries for both land-based and satellite broadcasts using this TV.
- FLOF (Full Level One Features) is available if it is transmitted.
- TOP (Table Of Pages) is available with German programmes if it is transmitted.
- ANTIOPE is a special Teletext standard used in France and is NOT available with this TV.



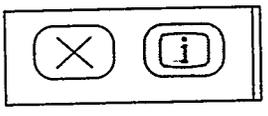
Switching on Teletext
- Select the programme number for a TV station that transmits Teletext.
- Press the ▤ button. Usually the index page (e.g. page 100) can then be seen on the screen.

The green indication 'TXT' on the front of the TV will then be on.



Selecting a Teletext page
- Press 3 digit buttons (e.g. 6 then 5 then 0 for page 650).

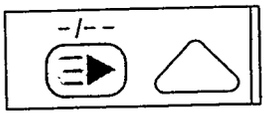
This starts the page indicator. When the page indicator is the same as the required page number it stops and the Teletext page is shown on the screen. If the Teletext page you have chosen is not available then the page indicator continues, until you give a Teletext page that can be found.



Recalling the index page
- Press the ⓘ button.

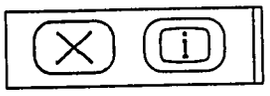
or,
- Select page 100.

Selecting additional Teletext functions (if they are transmitted)



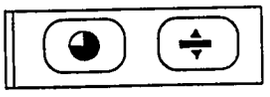
To see the next Teletext page
- Press the ≡▸ button. (The next 6 pages of Teletext are automatically stored and can be selected quickly).

Using Teletext



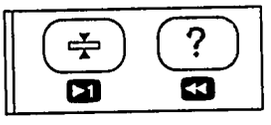
To switch off Teletext temporarily
- Press the **X** button. The 'TXT' indicator on the front of the TV is on.If the Teletext page is then updated the Teletext page number is shown on the screen.
- If you want to switch on Teletext again press the **X** button.

To select double height text
Note: If the Teletext page is updated the top half of the page is automatically selected.



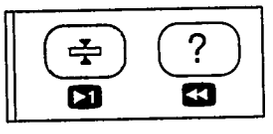
- Press the ÷ button to see the top half of the Teletext page enlarged on the screen.
- Press the ÷ button to see the bottom half of the Teletext page enlarged on the screen.
- If you want to return to normal height text press the ÷ button again.

To show concealed information
Some Teletext pages contain quizes or riddles.



- Press the ? button to show the concealed information.
- Press the ? button again to hide this information.

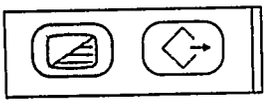
To stop automatic page changes (of 'rotating' pages)
Some information in Teletext needs more than one page. Each page is shown automatically in sequence.



- Press the ⊏⊐ button to stop the page changing automatically.
- If you want to continue to read the remaining pages, press the ≡▸ button to move on to the next page.
- Press the ⊏⊐ button to return to normal Teletext use.

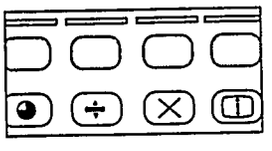
To see Teletext subtitles
Some TV programmes have subtitles on a specific Teletext page (check with a TV programme guide).
- Select the advertised Teletext page, so that the TV programme is shown with subtitles.

To see Teletext and a TV programme simultaneously



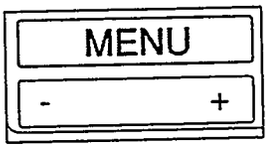
- Press the ⧄ button to superimpose Teletext over the TV programme.

To 'fast' select Teletext information



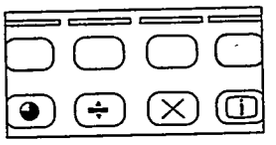
- Press either the RED, GREEN, YELLOW or BLUE button to select the information that is highlighted on the screen with that colour.

Recalling personal preference Teletext pages



- Press the **MENU** button to switch on the information line at the bottom of the screen.

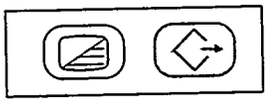
Then,
To select the next page



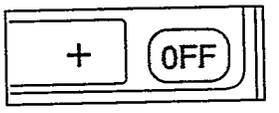
- Press the blue button.

Or,
To select the previous page
- Press the red button.

Or,



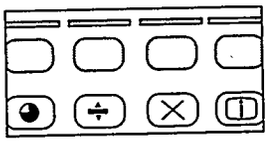
- Press the ⧄ button so that the first 'personal preference' page is shown.
- If you have stored more Teletext page numbers for the same TV station then repeatedly pressing ⧄ will show them.



- Press the **OFF** button to remove the information line from the bottom of the screen.

Note: To store your own Teletext page number choices see SECTION 2-To store Teletext personal preference pages.

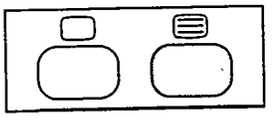
Selecting TOP Teletext pages (available only with German broadcasts)



- Press the yellow or green button to select the information that is highlighted on the Teletext page in that colour.

Or,
To select the next page
- Press the blue button.

Or,
To select the previous page
- Press the red button.



To quit Teletext
- Press the ≣ button.

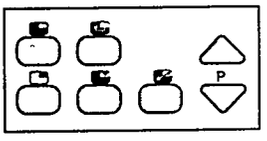
Note: You can also quit Teletext by selecting the ▢, ⊡ 1, ⊡ 2 or ⅄ button.

Using PIP (Picture in Picture)

INTRODUCTION

PIP offers the possibility of getting an extra picture on the screen while watching the TV, and then swapping it with the main picture, moving it, or freezing it on the screen.

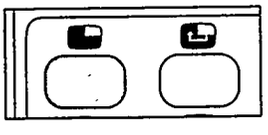
The picture you see can be:
a. The same picture as the main picture (land-based or satellite broadcast).
b. The picture from a connected source, e.g. a video recorder. (This makes it possible, for example, to look at another TV programme or video recording on a screen while watching the TV.)
c. The picture from a satellite broadcast with the picture from a land-based broadcast.



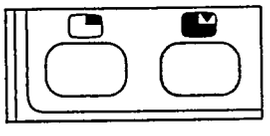
The remote control has the following buttons:
- PIP on/off
- Source selection
- Swap pictures
- Move picture
- Freeze picture
- △ or ▽ **P** To change programme numbers in the PIP screen

Notes:
- It is possible to obtain a PIP picture from the TV or from a maximum of 4 externally connected sources (2 Euroconnectors: EXT 1 and EXT 2, and 2 S-VHS connections - EXT 2 and EXT 3) and from the satellite tuner.
- The Euroconnector (EXT 2) and the S-VHS connector (EXT 2) cannot both be used at the same time.

Operating PIP
(with the TV switched on)

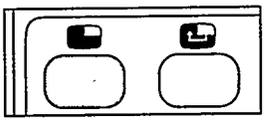


Switching on:
- Press the button. The extra TV picture appears in the last selected position and is from the last source selected for PIP.

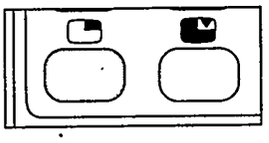


Or,
- Press the button to 'freeze' the picture you are watching on the PIP screen.

Note: When the TV is switched on using the ⏻ POWER button, and then the button is pressed, the extra TV picture appears in the top right-hand corner of the screen. The PIP screen picture is then the same as the main picture.



Switching off:
- Press the button again.

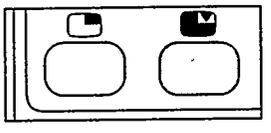


To select a PIP source
- Press the button to change a connected (PIP) source. After a source is selected with the button, the name of the source of the main picture and also the name of the selected PIP source is shown on the screen.

PIP sources
1.PIP from a land-based broadcast (aerial input).
2.PIP from EXT1.
3.PIP from EXT2.
4.PIP from EXT3.
5.PIP from a satellite broadcast (antenna input).

Note: If the video recorder is selected as the source, you may select the TV programmes shown on the PIP screen using the buttons on the video recorder.

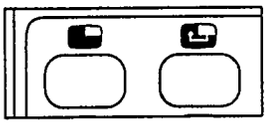
Freezing the PIP screen



- Press the button. The PIP screen now freezes.
- Press the button again to start the PIP screen moving again.

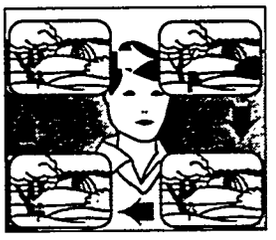
Note: The frozen picture will start moving again if another source is selected using the button.

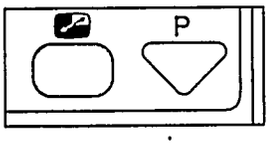
Using PIP (Picture in Picture)



Moving the PIP screen position

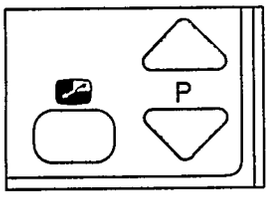
- Press the ◘ button. The PIP screen is moved each time this button is pressed.





Swapping the main picture with the PIP

- Press the ◘ button. The main picture is swapped with the PIP.
- Press the ◘ button to change again.



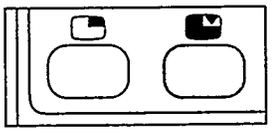
To change programme numbers in a PIP screen.

- Press the △ or ▽ **P** button.

Note: If the picture in the PIP screen is the same as the main picture then you cannot change the PIP screen programme number.

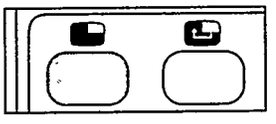
To freeze the main picture

Any TV picture can be held on the PIP screen while watching TV.



- Press the ◘ button. PIP is now switched on and a picture from the same TV programme appears frozen on the PIP screen.
- Press the ◘ button again to start the PIP screen moving.

Or,



- Press the ◘ button so that the PIP screen is removed.

General Information

Cleaning the TV screen

- Use a damp shammy leather to clean the screen.

Note: Never use abrasive or chemical cleaners.

Fault check list

Important: Never try to repair the TV yourself, always consult a skilled service engineer.

- Is the mains plug or the aerial connected properly ?
- Is the antenna, polariser or LNC cable for the satellite dish connected properly ?
- Have the correct buttons or menus been selected ?
- Is the parental mode lock on ?
- Is the TV switched on, or in standby mode ?
- Is EXT 1, EXT 2, or EXT 3 being used and selected correctly ?
- Has the sound been switched off ?
- If all the indicators on the front of the TV are flashing then try switching the TV off and then on.

If you have tried switching the TV off and then on, and checked for all of the above possible faults, then consult your dealer or service engineer.

IMPORTANT: If you see a horizontal bright white line across the screen, then switch off the TV immediately and consult a skilled service engineer.

English

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To store additional satellite TV stations
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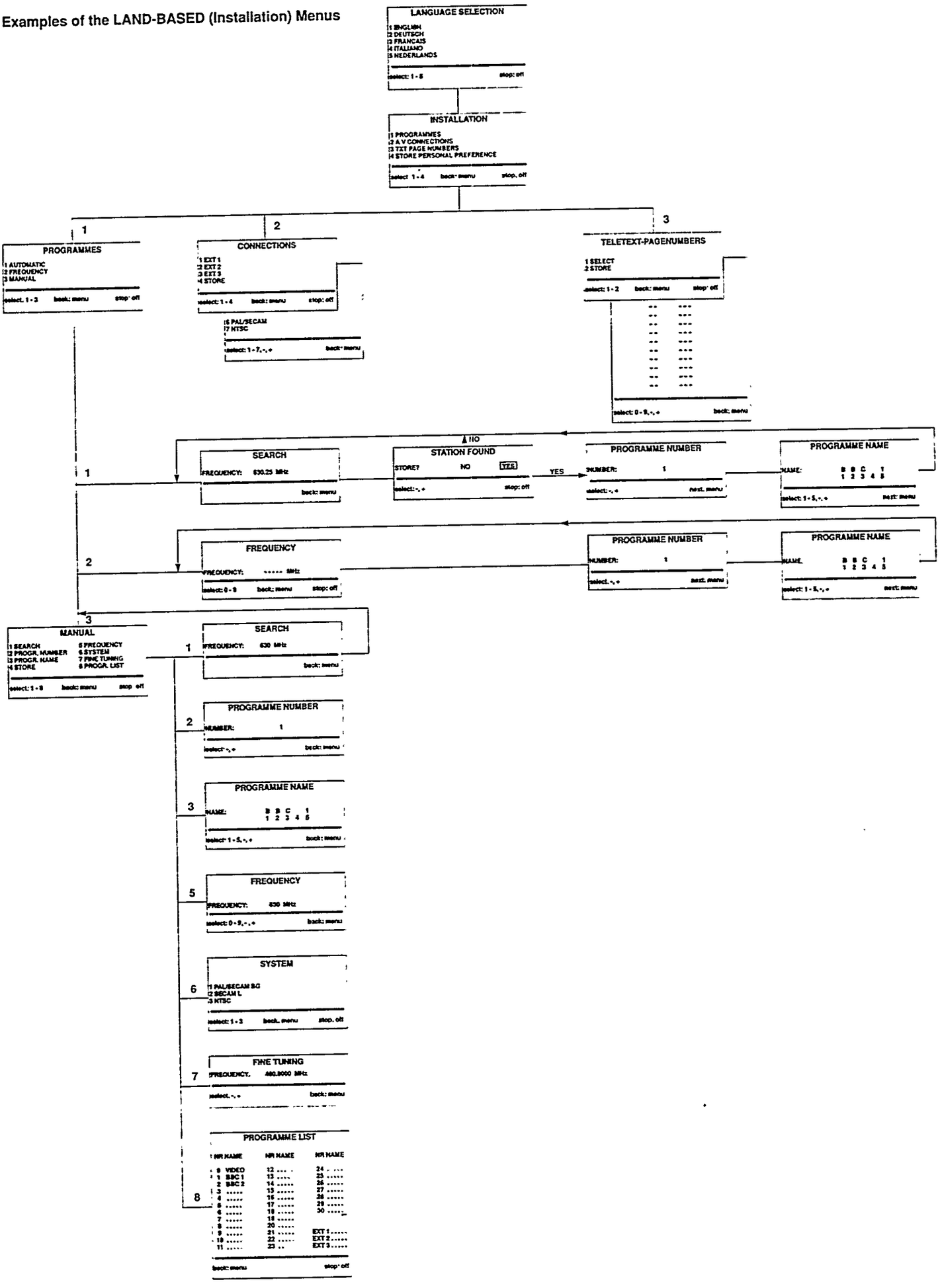
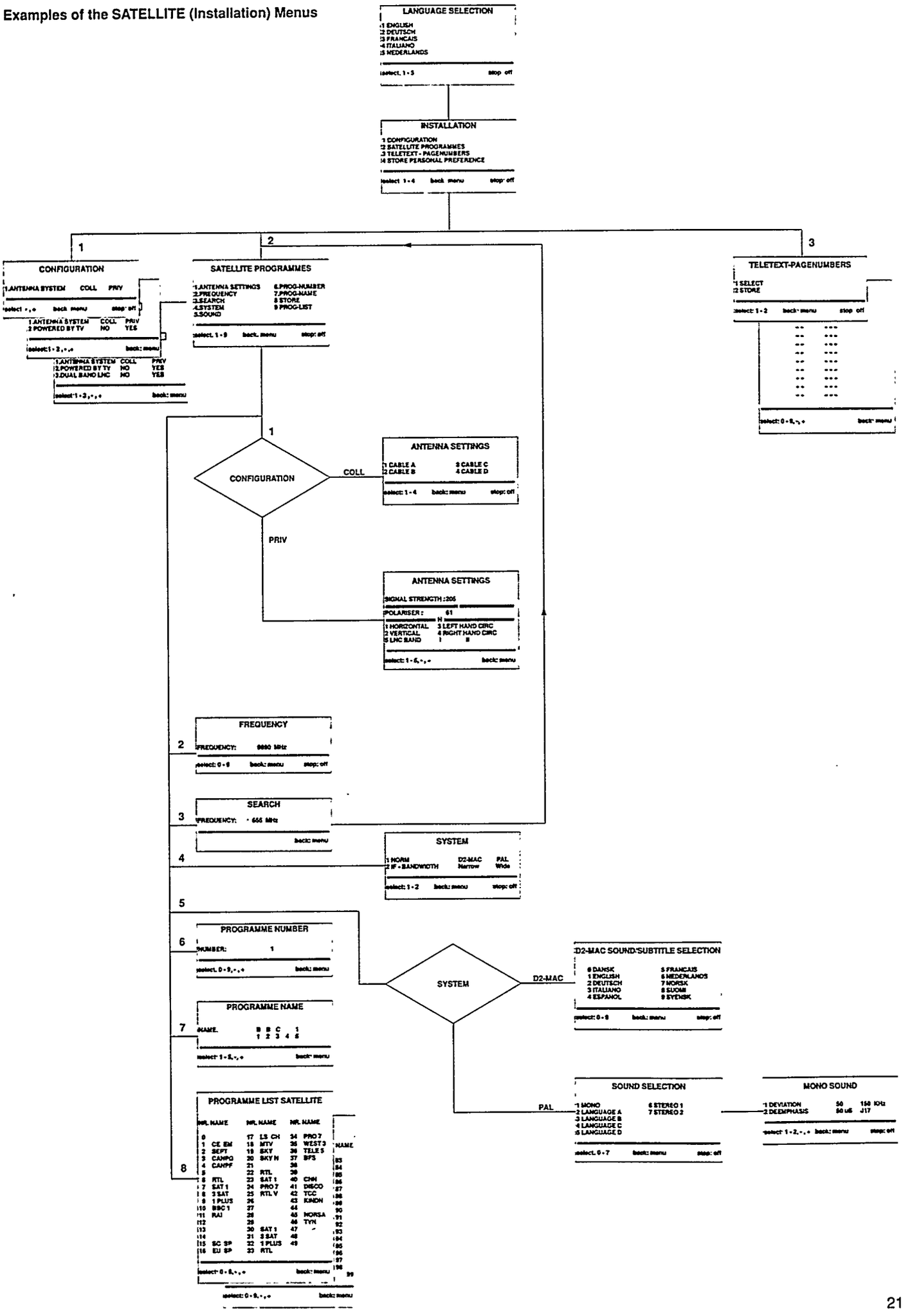
Examples of the LAND-BASED (Installation) Menus



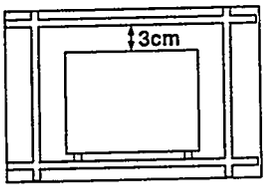
Examples of the SATELLITE (Installation) Menus



Introduction and Preparations

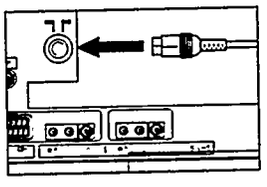
Before your new TV can receive satellite TV broadcasts you will need a satellite dish (e.g. Philips type SDS 06/09) and an installation kit (e.g. Philips type SCC 900). Your Philips dealer will be able to supply all of these parts.

- Assemble your satellite dish in a suitable position (see the operating instructions supplied with your satellite dish).



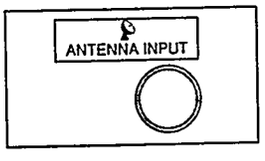
- Unpack the TV and the remote control.
- Place the TV on a solid surface (e.g. a TV/video cabinet).
- Leave a space of at least 3 cm around the TV for ventilation.

Connecting the TV



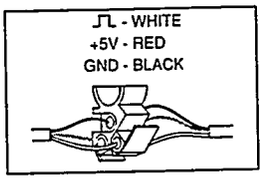
Connecting an aerial:
- Insert the aerial plug (for land-based broadcasts) into the socket on the back of the TV.

Connecting the satellite dish antenna:
Warning: The antenna input can supply 18 V d.c. to your satellite dish.

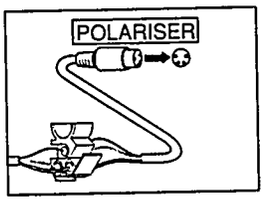


- Insert the antenna plug (for satellite broadcasts) into the ANTENNA INPUT socket on the back of the TV.

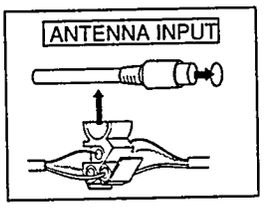
Connecting the polariser



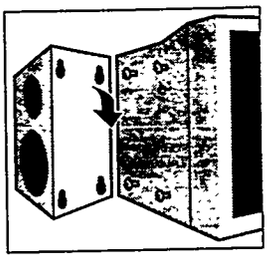
- Insert the 3 wires from the antenna cable into the connector block (as shown) and screw to tighten.



- Insert the polariser plug into the POLARISER socket on the back of the TV.



- Attach the connector block to the antenna cable.

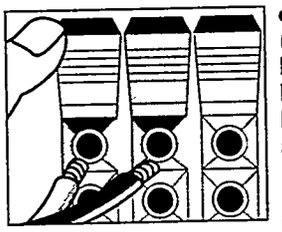


Attaching the loudspeakers
If you want to you can attach the loudspeakers to the sides of the TV, or you can stand them separately to the left and right of the TV.

To attach the loudspeakers:
- Position the 4 holes on the back of each loudspeaker over the 4 locating-plugs, then move the loudspeaker down to lock it into position.

To remove the loudspeakers:
- Hold each loudspeaker and move it slowly up until it is detached from the 4 locating-plugs.

FRONT



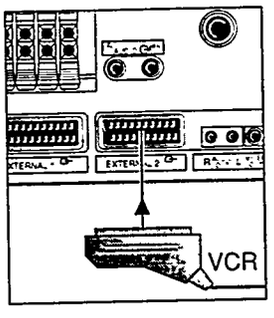
Connecting the loudspeaker cables:
- Press and hold each black or red (FRONT) key (Left and Right) on the back of the TV. Insert the appropriate black or red wire from each loudspeaker in the hole below the key, and then release the key.

Note: You can also purchase two additional loudspeakers (minimum 8 Ohm) from your dealer which may be connected using the REAR keys on the back of the TV.

Connecting additional equipment
A video recorder, CD-V player or other equipment may be connected to either the Euroconnectors or S-VHS sockets on the back of the TV. The S-VHS sockets on the front of the TV allow S-VHS camcorders or video cameras to be connected.

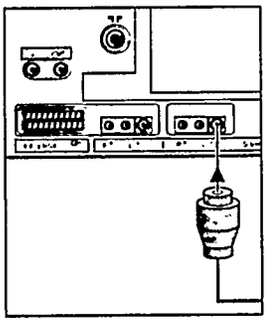
Note: Ask your dealer for the correct Euroconnector or S-VHS cables.

To connect equipment using the Euroconnectors
- Switch off the TV and the equipment to be connected.
- Connect the Euroconnector cable to either EXTERNAL 1 or EXTERNAL 2 on the back of the TV, and the other side to the equipment (refer to the operating instructions supplied with that equipment).
- If you want to test that a picture and sound is available from this connection, see Section 1 - selecting an external SOURCE.



Note: You can only record satellite programmes if your video recorder is connected to EXTERNAL 2.

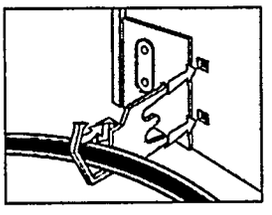
Connecting the TV



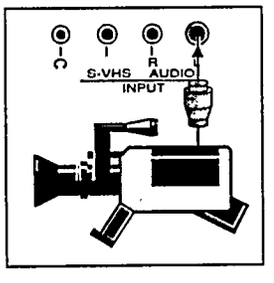
To connect equipment using the S-VHS connectors

- Switch off the TV and the equipment to be connected.
- Connect the S-VHS connector cables to the S-VHS audio and video sockets on the back of the TV. Connect the other side to the equipment (refer to the operating instructions supplied with that equipment).
- If you want to test that a picture and sound is available from this connection, see Section 1 - selecting an external SOURCE.

Note: You can record using S-VHS either from D2-MAC satellite broadcasts or EXT 3.

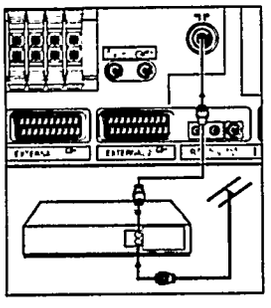


Note: You can fix the support hook on the back of the TV to hold any cables from connected equipment.



To connect a camcorder (or video camera)

- Switch off the camcorder and the TV.
- Open the flap on the front of the TV.
- Connect the S-VHS cables from the camcorder to the appropriate sockets on the front of the TV.
- If you want to test that a picture and sound is available from this connection, see Section 1 - selecting an external SOURCE.



To connect a video recorder using the ⊓ socket:

- Switch off the TV and video recorder.
- Connect the aerial plug from the video recorder to the ⊓ socket on the TV.
- Connect the aerial output socket on the video recorder to the aerial cable.
- If you want to test that a picture and sound is available from this connection, see the section To select the PROGRAMMES menu (for land-based TV broadcasts).

Note: You can only record satellite programmes if your video recorder is connected to EXTERNAL 2 (Euroconnector).

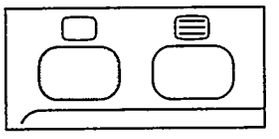
To connect audio equipment (e.g. an audio amplifier)

- Connect the audio output sockets (L and R) to the appropriate input sockets on your audio amplifier using a suitable cable (Ask your dealer).

The Installation menus

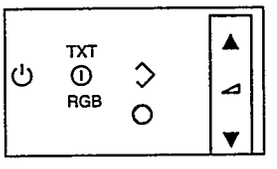
From the main INSTALLATION menus (separate for land-based and satellite) you can select the other menus:
- To select the displayed language;
- To store land-based and satellite TV broadcasts;
- To select the available connections;
- To store Teletext personal preference pages;
- To store personal preference sound and picture settings.

To select the INSTALLATION MENU (with the TV switched on)



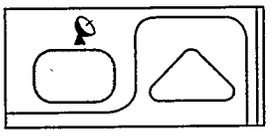
For land-based TV broadcasts:

- Press the ▢ button on the remote control.



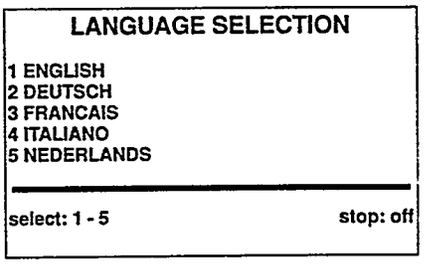
- Press the ◇ button on the front of the TV.

Or,
For satellite TV broadcasts:



- Press the ⚲ button on the remote control.
- Press the ◇ button on the front of the TV.

Then,
The following LANGUAGE SELECTION menu is shown:



LANGUAGE SELECTION
This menu allows you to select the language that you want to be shown on the screen whenever a menu is selected.

To select the required language:
- Press the appropriate digit button (1-5).

For the INSTALLATION menu for satellite TV broadcasts refer to the section 'For Satellite broadcasts'.

The Installation menus

For Land-based broadcasts (PAL/SECAM or NTSC)

The following INSTALLATION menu is shown:

INSTALLATION		
1 PROGRAMMES 2 A/V CONNECTIONS 3 TXT PAGE NUMBERS 4 STORE PERSONAL PREFERENCE		
select: 1 - 4	back: menu	stop: off

To select the PROGRAMMES menu
- Press **1** to select PROGRAMMES.

The following PROGRAMMES menu is shown:

PROGRAMMES		
1 AUTOMATIC 2 FREQUENCY 3 MANUAL		
select: 1 - 3	back: menu	stop: off

Note: Before using the AUTOMATIC or FREQUENCY method to find TV stations you can select the TV system in the MANUAL menu.

You can either,
- Use the AUTOMATIC method to search for, then number and name TV stations;

or,
- Use the FREQUENCY method to directly choose frequencies for a programme number and then name the TV station.

Alternatively you can:
- Use the MANUAL menu in which you can choose to:

a). automatically search for a TV station but then select the programme number and name manually,

or,
b). directly select frequencies and then manually select the programme number and name for a TV station.

The AUTOMATIC method:
- Press **1** to select AUTOMATIC.

The following is then shown, for example:

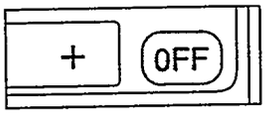
SEARCH	
FREQUENCY:	655 MHz

When a TV station is found the following menu is shown:

STATION FOUND		
STORE?	NO	YES
select: -, +		stop: off

[1] If you want to store this TV station press the + button.

- If you don't want to store the TV station press the - button (so that step **[1]** is repeated for a different TV station).



To quit the AUTOMATIC selection:
- Press the **OFF** button to return to the INSTALLATION menu.

If you have selected the + button the following PROGRAMME NUMBER menu is shown:

PROGRAMME NUMBER	
NUMBER:	1
select: -, +	next: menu

[2] Press - or + to select a programme number (0-59).

Note: For programme numbers 31 to 59 you cannot store a name. When these are selected 'PRO - - 30' flashes on the screen in red as the programme name.

[3] Press the **MENU** button to store this selection, so that the following PROGRAMME NAME menu is shown:

PROGRAMME NAME	
NAME:	B B C 1 1 2 3 4 5
select: 1 - 5, -, +	back: menu

The Installation menus

[4] Select in turn the digit buttons 1-5. After each selection use the - or + button to see all the possible letters of the alphabet, numbers or a space that can be used to give the name to the TV station.
[5] Press the **MENU** button to continue searching.

Repeat steps [1] to [5] for all the TV stations that you want to store.

Note: If a video recorder is connected to the aerial socket then steps [1] to [4] can be used to store a programme number for the video recorder.
Use programme numbers 0 or 50 to 59.

The FREQUENCY method:
(TV stations transmit their programmes on a specific frequency in the Mega Hertz (MHz) range).

- Press **2** (in the PROGRAMMES menu) to select FREQUENCY.

The following is then shown, for example:

FREQUENCY		
FREQUENCY:	630.00 MHz	
select: 0 - 9	next: menu	stop: off

[1] Use the digit buttons to select the 5 numbers for the frequency (e.g. 17525 for 175.25 MHz).

If the TV station shown is the one you want:
[2] Press the **MENU** button so that the following PROGRAMME NUMBER menu is shown:

PROGRAMME NUMBER	
NUMBER:	1
select: -, +	back: menu

[3] Press - or + to select a programme number (0-59).

Note: For programme numbers 31 to 59 you cannot store a name. When these are selected 'PRØ - - 30' flashes on the screen in red as the programme name.

[4] Press the **MENU** button to store this selection, so that the following PROGRAMME NAME menu is shown:

PROGRAMME NAME	
NAME:	. . . . . 1 2 3 4 5
select: 1 - 5, -, +	next: menu

[5] Select in turn the digit buttons 1-5. After each selection use the - or + button to see all the possible letters of the alphabet, numbers or a space that can be used to give the name to the TV station.
[6] Press the **MENU** button to continue selecting frequencies.

Repeat steps [1] to [6] for all the TV stations that you want to store.

To quit FREQUENCY selection:
- Press the **OFF** button (as many times as necessary) to return to the INSTALLATION menu.

The MANUAL method

To select the MANUAL menu:
- Press **3** (in the PROGRAMMES menu).

The following MANUAL menu is shown:

MANUAL	
1 SEARCH	5 FREQUENCY
2 PROGR. NUMBER	6 SYSTEM
3 PROGR. NAME	7 FINE TUNING
4 STORE	8 PROGR. LIST
select: 1 - 8	back: menu stop: off

a). For the automatic SEARCH method to find TV stations then:
[1] Select the SEARCH menu.
[2] Select the PROGRAMME NUMBER menu.
[3] Select the PROGRAMME NAME menu.
[4] Press 4 to STORE the TV station.
[5] Repeat steps [1] to [4] for all the required TV stations.

Note: For steps [2] and [3], you must press the MENU button to return to the MANUAL menu.

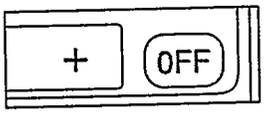
Then,
- Press the **OFF** button to quit the MANUAL menu.

The Installation menus

b). For the FREQUENCY selection method to find TV stations:
[1] Select the FREQUENCY menu (then select the 3 digits , or the - or + buttons, for the frequency required).
[2] Select the PROGRAMME NUMBER menu.
[3] Select the PROGRAMME NAME menu.
[4] Press **4** to STORE the TV station.
[5] Repeat steps [1] to [4] for all the required TV stations.

Note: For steps **[2]** and **[3]**, you must press the MENU button to return to the MANUAL menu.

Then,



- Press the **OFF** button to quit the MANUAL menu.

To change the TV system (from PAL/SECAM BG to SECAM L or NTSC)

- Press **6** to select SYSTEM.

The following SYSTEM menu is shown:

SYSTEM		
1 PAL/SECAM BG 2 SECAM L 3 NTSC		
select: 1 - 3	back: menu	stop: off

- Press either **1**, **2** or **3** to select the system (either PAL/SECAM BG, SECAM L or NTSC).

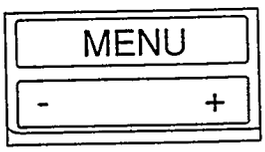
Note: SECAM L is only available in France.

To fine tune a TV programme

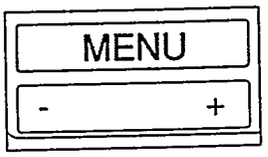
- Select a TV programme already stored.
- Select the INSTALLATION menu, then the MANUAL menu.
- Press **7** to select FINE TUNING.

The following FINE TUNING menu is shown:

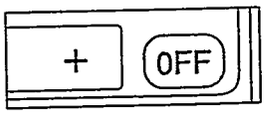
FINE TUNING	
FREQUENCY: 490.0000 MHz	
select: -, +	back: menu



- Use the - or + button to adjust the frequency in steps of .0625 MHz.



- Press the **MENU** button to return to the INSTALLATION menu.
- Press **4** to select STORE.



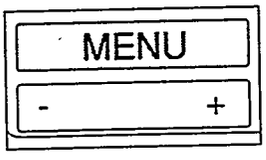
- Press the **OFF** button to quit the menus.

To check the PROGRAMME LIST

- Select the INSTALLATION menu, then the MANUAL menu.
- Press **8** to select PROGR. LIST.

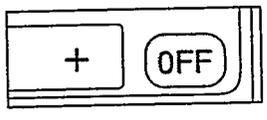
The following PROGRAMME LIST, for example, is shown:

PROGRAMME LIST		
NR NAME	NR NAME	NR NAME
0 VIDEO	12	24 .....
1 BBC 1	13	25 .....
2 BBC 2	14	26 .....
3	15	27 .....
4	16	28 .....
5	17	29 .....
6	18	30 .....
7	19	
8	20	
9	21	EXT 1
10	22	EXT 2 .....
11	23	EXT 3 .....
select: 0 - 9, -, +		stop: off



- Press **MENU** to return to the MANUAL menu.

Or



- Press **OFF** to quit the menus.

To name the external CONNECTIONS
(The external connections can be used to connect video or audio equipment)

- Select the INSTALLATION menu.
- Press **2** to select A/V CONNECTIONS.

The following CONNECTIONS menu is shown:

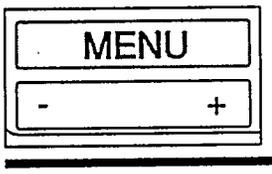
CONNECTIONS		
1 EXT 1 2 EXT 2 3 EXT 3 4 STORE		
select: 1 - 3	back: menu	stop: off

The Installation menus

● Select the appropriate digit button for either EXT 1, EXT 2 or EXT 3.
The following EXT menu is shown, for example:

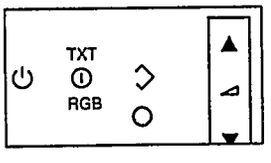
EXT 1	
NAME:	1 2 3 4 5
6 PAL/SECAM 7 NTSC	
select: 1 - 7, -, +	back: menu

● Select in turn the digit buttons 1-5. After each selection use the - or + button to see all the possible letters of the alphabet, numbers or a space that can be used to give the name to the external connector.
● Press either **6** or **7** to choose the appropriate system (PAL/SECAM or NTSC).



● Press the **MENU** button to return to the CONNECTIONS menu.
● Press **4** to STORE the names for the external connections.

To store Teletext personal preference pages
You can store up to 20 Teletext pages that you frequently use.
Note: Teletext must **not** be switched on.



● Press the ◇ button on the TV.
The LANGUAGE SELECTION menu is shown:

LANGUAGE SELECTION	
1 ENGLISH 2 DEUTSCH 3 FRANCAIS 4 ITALIANO 5 NEDERLANDS	
select: 1 - 5	stop: off

● Select the required language.
The INSTALLATION menu is shown:

INSTALLATION		
1 PROGRAMMES 2 A/V CONNECTIONS 3 TXT PAGE NUMBERS 4 STORE PERSONAL PREFERENCE		
select: 1 - 4	back: menu	stop: off

● Press **3** to select TXT PAGE NUMBERS.

The TXT PAGE NUMBERS menu is then shown:

TXT PAGE NUMBERS		
1 SELECT 2 STORE		
select: 1 - 2	back: menu	stop: off

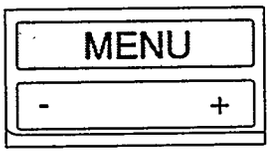
● Press **1** to SELECT.

If Teletext page numbers have not been previously stored then an empty list is shown:

PROGRAMME PAGE	
--	---
--	---
--	---
--	---
--	---
--	---
--	---
--	---
--	---
--	---
select: 0 - 9, -, +	back: menu

Then,
[1] Select the programme number (2 digits) for the TV station then the Teletext page number (3 digits).
The last selected page is shown in red.

[2] If you want to select more Teletext pages you can move up or down using the - or + button. Then repeat step **[1]**.



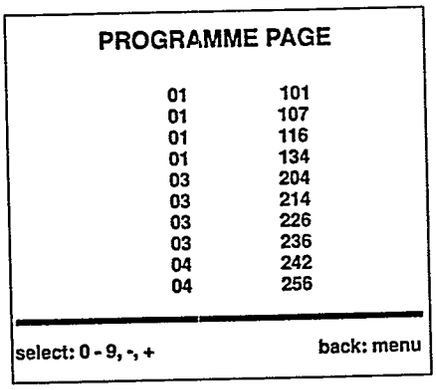
[3] Press the **MENU** button so that the TXT PAGE NUMBERS menu is shown:

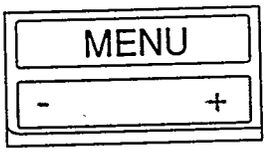
TXT PAGE NUMBERS		
1 SELECT 2 STORE		
select: 1 - 2	back: menu	stop: off

[4] Press **2** to STORE.
The complete list of selected Teletext pages is shown in red on the screen until they are stored in the TV.

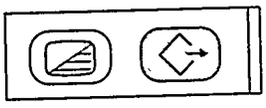
The Installation menus

If some Teletext page numbers have been already stored then a list is shown (for example):





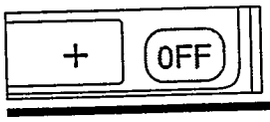
Then,
- Use the + or - button to select the line you want to enter information on. A red bar highlights the line you have selected.



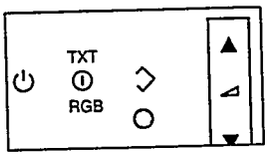
Then either,
- Press the ⇳ button to erase a line, before repeating steps **[1]** to **[4]**.

Or,
- Directly repeat steps **[1]** to **[4]** so that a new line is inserted.

To quit the menus
- Press the **OFF** button.

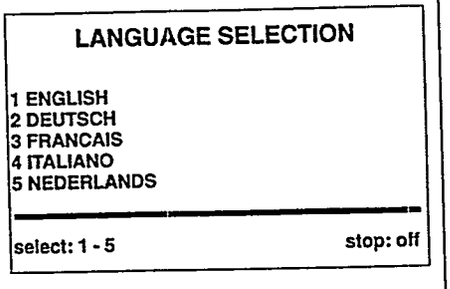


To store your own personal preference settings
When the SOUND and PICTURE menus are selected the changes made will only be used until the TV is switched off again.
You can store these 'personal preferences' in the memory of the TV in following way:



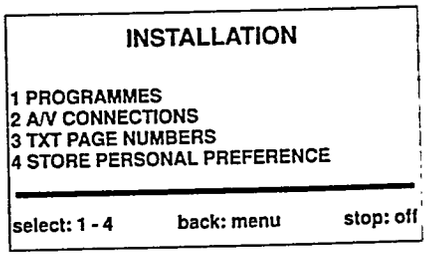
- Press the ◇ button on the TV.

The LANGUAGE SELECTION menu is shown:



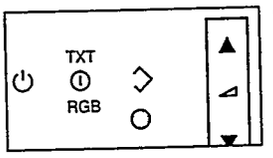
- Select the required language.

The INSTALLATION menu is shown, for example:

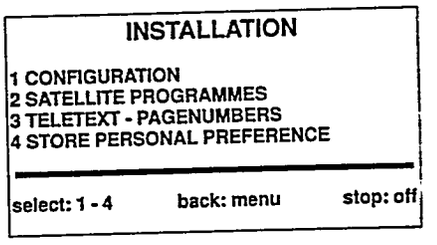


- Press **4** to select STORE PERSONAL PREFERENCE. This will store any previously selected sound and picture settings.

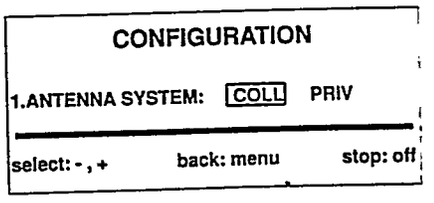
FOR SATELLITE BROADCASTS
A large number of satellite TV stations (both D2-MAC and PAL) have been stored by the factory. Only the 'POLARISER' setting for these may need adjusting. To adjust the polariser setting: select the programme number; then select the INSTALLATION menu; then refer to the section 'To select the SATELLITE PROGRAMMES menu'.



The INSTALLATION menu
- After you have pressed the ◇ button and you have selected 'English' in the LANGUAGE SELECTION menu, the following INSTALLATION menu is shown:



The CONFIGURATION menu
- Press **1** to select the CONFIGURATION menu.



To change a configuration setting:
- Select either 1, 2 or 3, then press the + or - button to switch between the two choices for each setting.

The configuration settings:
Antenna system
- If you have your own satellite dish then select PRIV (private).
- If you have access to different satellite dishes (collective antenna) then select COLL (collective).

The Installation menus

If PRIV. is selected you will see:

CONFIGURATION		
1.ANTENNA SYSTEM	COLL	[PRIV]
2.POWERED BY TV	NO	YES
select:1 - 2, - , +		back: menu

Note: If you live in an apartment block you may have a collective antenna. If COLL (collective) is selected you can immediately press the **MENU** button to return to the INSTALLATION menu.

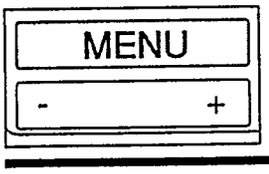
Powered by TV
Warning: The antenna input can supply 18 V d.c. to your satellite dish.
If 'ERROR SAT/MAC 04' appears on the screen immediately select **NO** or disconnect the satellite antenna input.

- If your satellite dish gets its power supply from the TV select **YES.**
- Otherwise select **NO.**

If **YES** is selected you will see:

CONFIGURATION		
1.ANTENNA SYSTEM	COLL	[PRIV]
2.POWERED BY TV	NO	[YES]
3.DUAL BAND LNC	NO	YES
select:1 - 3, - , +		back: menu

Dual band LNC
- If your satellite dish uses a DUAL band LNC (Low Noise Converter) then select **YES.**
- Otherwise select **NO.**
- Press the **MENU** button to return to the INSTALLATION menu.



To select the SATELLITE PROGRAMMES menu
- Press **2** (in the INSTALLATION menu).

The following SATELLITE PROGRAMMES menu is shown:

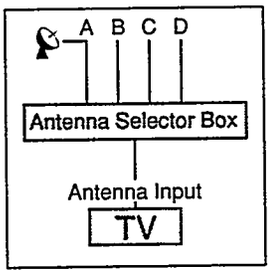
SATELLITE PROGRAMMES	
1.ANTENNA SETTINGS	6.PROG-NUMBER
2.FREQUENCY	7.PROG-NAME
3.SEARCH	8 STORE
4.SYSTEM	9 PROG-LIST
5.SOUND	
select: 1 - 9	back: menu stop: off

The ANTENNA SETTINGS menu

If you have a collective antenna:
- Press **1** to select ANTENNA SETTINGS.

The following menu is shown:

ANTENNA SETTINGS	
1 CABLE A	2 CABLE B
3 CABLE C	4 CABLE D
select: 1 - 4	back: menu stop: off



Before you search for a satellite TV station you can specify which cable (or satellite dish) you want to use:
- Press a digit button for the appropriate cable (either A,B,C or D)

If you have your own satellite dish (private antenna):
- Press **1** to select ANTENNA SETTINGS.

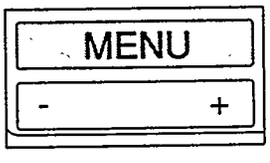
The following menu is shown:

ANTENNA SETTINGS	
SIGNAL STRENGTH :205	
POLARISER :	61
	H
1 HORIZONTAL	3 LEFT HAND CIRC
2 VERTICAL	4 RIGHT HAND CIRC
5 LNC BAND	I II
select: 1 - 5, - , +	back: menu

If DUAL BAND LNC was previously selected in the CONFIGURATION menu then:
- Press **5** to select the LNC (Low Noise Converter) band (either I or II).

Note: The last selected polarisation (either H, V, L or R) appears on the POLARISER setting line.

Then,
- Select a digit button (1-4) if you want to change the polarisation of the satellite signal (either horizontal, vertical, left-hand circular, or right-hand circular).
- If the - or + button is then pressed the POLARISER setting can be adjusted. You will see an improvement in the quality of the picture if the SIGNAL STRENGTH increases.



- Press the **MENU** button to return to the SATELLITE PROGRAMMES menu.

Note: If you only had to adjust the polariser settings for the pre-stored satellite TV stations, then select STORE to save any changes for each TV station. Do not store if a signal is not received.
You can quit the menus by pressing the OFF button.

The Installation menus

To store additional satellite TV stations
First select the ANTENNA settings (the POLARISER and band I or II setting).
Then you can either:
Directly select frequencies and then select the system, sound, programme number and name for a satellite TV station.

or,
Automatically search for a satellite TV station, and then select the system, sound, programme number and name.

For the FREQUENCY selection method to find a TV station:
[1] Press **2** to select the FREQUENCY menu (then select 3 digits for the frequency required in the range 0950 to 1750 MHz).

The following is then shown, for example (if '099' is selected):

FREQUENCY

FREQUENCY: 0990 MHz

select: 0 - 9 back: menu stop: off

For the automatic SEARCH method to find a TV station then:
[1] Press **3** to select the SEARCH menu.

SEARCH

FREQUENCY: 0950 MHz

When a TV station is found the SATELLITE PROGRAMMES menu is shown:

SATELLITE PROGRAMMES

1.ANTENNA SETTINGS
2.FREQUENCY
3.SEARCH
4.SYSTEM
5.SOUND
6.PROG-NUMBER
7.PROG-NAME
8 STORE
9 PROG-LIST

select: 1 - 9 back: menu stop: off

Then,
[2] Press **4** to select the SYSTEM menu.

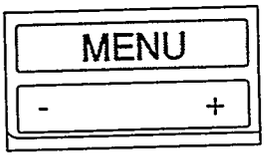
The following menu is shown:

SYSTEM

1 NORM	D2-MAC	PAL
2 IF - BANDWIDTH	Narrow	Wide

select: 1 - 2 back: menu stop: off

Choose the appropriate system, either D2-MAC or PAL and also the 'bandwidth' which gives the best picture. The table of satellite programmes in the front of this section gives the system and bandwidth for the pre-stored satellite programmes.



- Press the **MENU** button to return to the SATELLITE PROGRAMMES menu.

Then,
[3] Press **5** to select the SOUND menu.

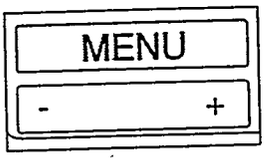
For D2-MAC satellite broadcasts the following menu is shown:

D2-MAC SOUND/SUBTITLE SELECTION

0 DANSK
1 ENGLISH
2 DEUTSCH
3 ITALIANO
4 ESPANOL
5 FRANCAIS
6 NEDERLANDS
7 NORSK
8 SUOMI
9 SVENSK

select: 0 - 9 back: menu stop: off

- Press the digit button for the language you want to hear normally (if available).



- Press the **MENU** button to return to the SATELLITE PROGRAMMES.

For PAL satellite broadcasts the following menu is shown:

SOUND SELECTION

1 MONO
2 LANGUAGE A
3 LANGUAGE B
4 LANGUAGE C
5 LANGUAGE D
6 STEREO 1
7 STEREO 2

select: 1 - 7 back: menu stop: off

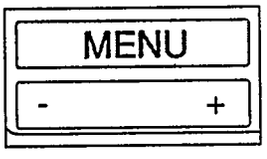
- Select the sound setting you want to store for the TV station. Either MONO, LANGUAGE A, B, C, D or STEREO 1 or 2 using the digit buttons.

The Installation menus

If MONO is selected the following menu is shown:

MONO SOUND		
1 DEVIATION	50	150 KHz
2 DEEMPHASIS	50 uS	J17
select: 1 - 2, - , +	back: menu	stop: off

Note: You can find the correct deviation and deemphasis setting for the pre-stored TV stations from the table in the front of this section.
- Select either the MONO DEEMPHASIS or DEVIATION setting using the digit buttons. Then use the - or + button to choose the correct setting for each of these (whichever gives the best sound quality).



- Press the **MENU** button twice to return to the SATELLITE PROGRAMMES menu.

Then,

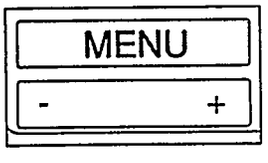
[4] Press 6 to select the PROGRAMME NUMBER menu as shown:

PROGRAMME NUMBER	
NUMBER:	1
select: 0 - 9, - , +	back: menu

[5] Press the digit buttons (0-9) or - or + to select a programme number (0-99).
[6] Press 7 to select the PROGRAMME NAME menu as shown:

PROGRAMME NAME	
NAME:	B B C 1 1 2 3 4 5
select: 1 - 5, -, +	back: menu

[7] Select in turn the digit buttons 1-5, and after each selection use the - or + button to see all the possible letters of the alphabet, numbers or a space that can be used to give the name to the TV station.
[8] Press the **MENU** button to return to the SATELLITE PROGRAMMES menu.



[9] Press 8 to STORE the TV station.
[10] Repeat steps [1] to [9] for all the required TV stations.

To check the PROGRAMME LIST
- Press 9 to select PROGR. LIST.

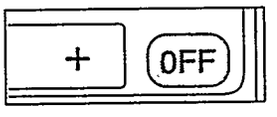
The following PROGRAMME LIST, for example, is shown:

PROGRAMME LIST SATELLITE

NR.	NAME	NR.	NAME	NR.	NAME
0		17	LS CH	34	PRO 7
1	CE EM	18	MTV	35	WEST 3
2	SEPT	19	SKY	36	TELE 5
3	CANPG	20	SKY N	37	BFS
4	CANPF	21		38	
5		22	RTL	39	
6	RTL	23	SAT 1	40	CNN
7	SAT 1	24	PRO 7	41	DISCO
8	3 SAT	25	RTL V	42	TCC
9	1 PLUS	26		43	KINDN
10	BBC 1	27		44	
11	RAI	28		45	NORSA
12		29		46	TVN
13		30	SAT 1	47	
14		31	3 SAT	48	
15	SC SP	32	1 PLUS	49	
16	EU SP	33	RTL		

select: 0 - 9, - , + back: menu

- To see the list for programme numbers 50-99 press the + button.



- Press the **MENU** button to return to the SATELLITE PROGRAMMES menu, or **OFF** to quit the menus.

To store Teletext personal preference pages.
(See the same section for land-based broadcasts for further information).

To store your own personal preference settings.

(See the same section for land-based broadcasts for further information).

Technical Information

General

Mains voltage	: AC 220-240 V ±10%
Ambient temp	: +5 - + 35 °C
Power consumption	: 145 W
	: Stand-by 6 W
	: Satellite record in Stand-by 28 W
Weight	: ± 46 kg
Dimensions	: 64.5 x 54.5 x 48.5 cm

Sound

Sound output	: 2 x 30 W (mpo) in 8 Ohm
Loudspeakers	: 2 x tweeter ø 1"
	: 2 x woofer ø 4"
Graphic equalizer	: 5 band
Frequency	: 64 Hz - 250 Hz - 1 kHz - 4 kHz - 15 kHz

Reception

Terrestrial Tuning system	: PLL
Number of preselections	: 60
Transmission system	: PAL B/G
	SECAM B/G/L
	NTSC M
Channel selections	: VHF
	UHF
	S-band
	Hyperband
Aerial input VCR	: 75 Ohm Coax
preselection	: 0/00, 57, 58, 59
Satellite Tuning system	: PLL
Number of preselections	: 100
frequency range	: 950 MHz - 1750 MHz
Transmission system	: D2-MAC
	PAL-satellite
Aerial input Individual antenna system	: 75 Ohm Coax
LNC - outdoor unit Supply	: yes, via antenna cable
Supply current	: 200 mA max
Supply voltage Dual Band	: 14/18 V
LNC	: yes, selectable via menu per programme number
Polariser control	: yes, per programme number (64 steps adjustable)
Pulse-width	: 0.8 msec - 2.0 msec
Supply voltage	: 5.6 V
Supply current	: 500 mA max
Polariser output	: 4-p DIN
Signals on adapter	: Red: +5.6 V
	Black: GND
	White: pulse
Collective antenna system	
Selection of antenna	: through antenna coax via 4 levels 0 - 3 - 6 - 9 V per programme number selectable
Audio signals D2-MAC	: acc to D2-MAC standard
PAL satellite	: mono 6.50 MHz - 6.60 MHz - 6.65 MHz
	: stereo / (I) 7.02 MHz - 7.20 MHz
	: stereo / (II) 7.38 MHz - 7.56 MHz
	: multilingual A: 7.02, B: 7.20, C: 7.38, D: 7.56

Connectors

Front

Headphone	: 3.5 mm jack stereo
Impedance	: 32 - 2000 Ohm
Output level	: ≥ 10 mW
S-VHS input	: TCS 7540 socket + 2 x cinch
Y-t sync input	: 1 Vpp ± 3 dB / 75 Ohm
Chroma-input	: 300 mVpp ± 3 dB / 75 Ohm
Audio input	: 0.2 V - 2 V_{RMS} / 10 kOhm

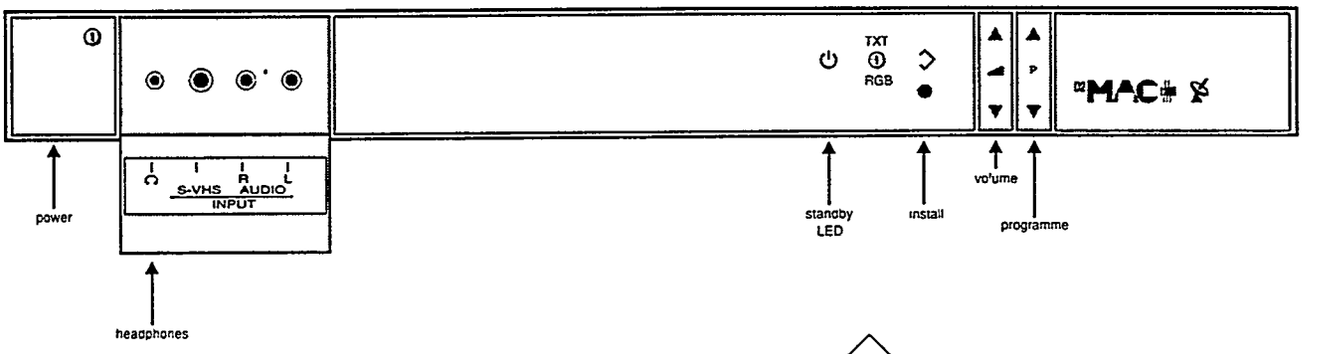
Rear

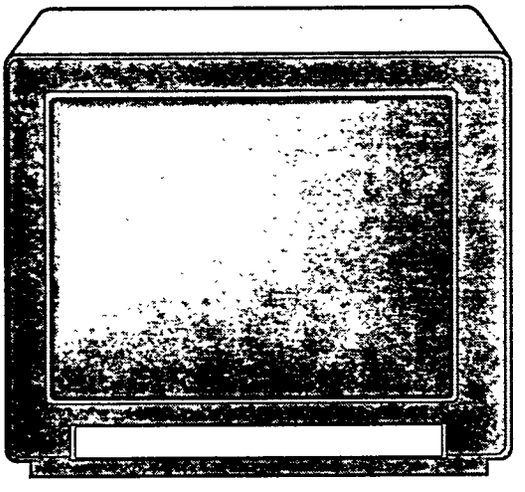
Coax aerial input 1 for terrestrial signals	: IEC connector 75 Ohm
Coax aerial input 1 for satellite signals	: IEC connector 75 Ohm
External 1	: 21 pin connector acc. to CENELEC
Video signals input	: 1 Vpp ± 3 dB 75 Ohm
output	: 1 Vpp ± 3 dB 75 Ohm (always terrestrial tuner)
RGB input signals levels	: 700 mVpp ± 3 dB 75 Ohm
Audio signals input	: 200 mV - 2 V_{RMS} / 10 kOhm
output	: 500 mV_{RMS} nominal
output impedance	: ≤ 1 kOhm
External 2	: 21 pin connector
Video signals input	: 1 Vpp ± 3 dB 75 Ohm
output	: 1 Vpp ± 3 dB 75 Ohm via menu (source selectable)
Audio signals input	: 200 Mv - 2 V_{RMS} / 10 kOhm
output	: 500 mV_{RMS} nominal
output impedance	: ≤ 1 kOhm
S-VHS input	: TCS 7540 + 2 x cinch
Y-sync input	: 1 Vpp ± 3 dB 75 Ohm
Chroma input	: 300 mVpp ± 3 dB 75 Ohm
Audio inputs	: 200 mV - 2 V_{RMS} / 10 kOhm
S-VHS output	: TCS 7540 + 2 x cinch
Y-sync output	: 1 Vpp ± 3 dB 75 Ohm
Chroma output	: 300 mVpp ± 3 dB 75 Ohm
Audio outputs	: 500 mV_{RMS} nominal
Output impedance	: ≤ 1 kOhm

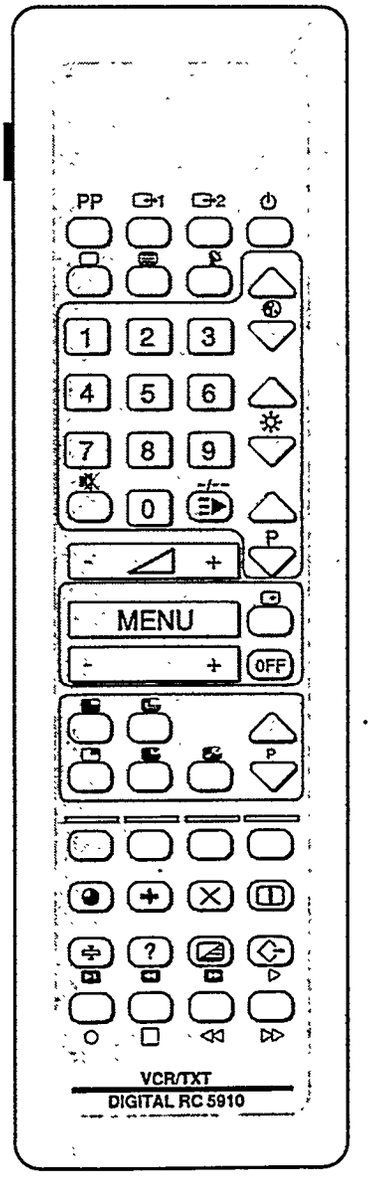
Variable audio level output

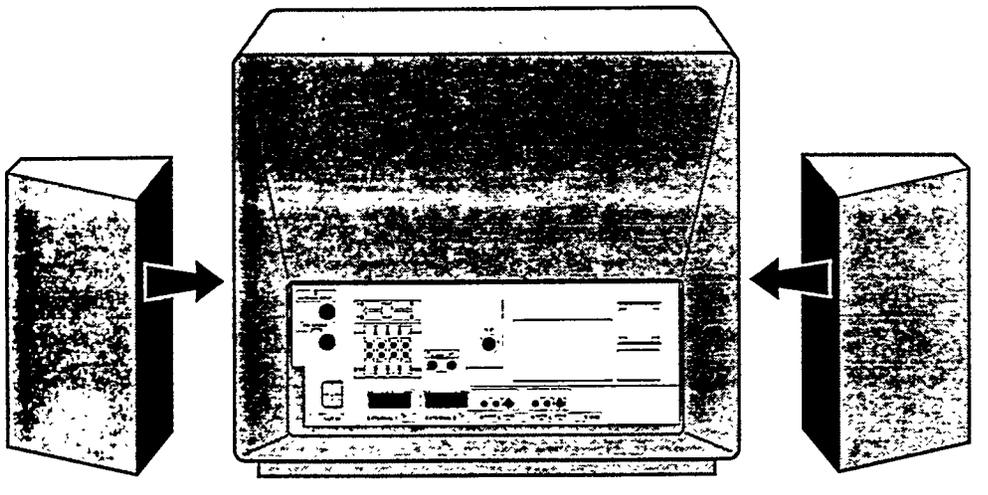
left channel	: white cinch 0 - 2 V_{RMS}
right channel	: red cinch 0 - 2 V_{RMS}
Output impedance	: ≤ 1.5 kOhm

Loudspeaker connectors: push terminalsv


TXT
RGB
MAC
S-VHS AUDIO
INPUT
power
headphones
standby LED
install
volume
programme




PP
MENU
OFF
VCR/TXT
DIGITAL RC 5910



GB	**IDENTITY CARD**	This card together with the terms of guarantee ito be provided by your dealer), forms the full certificate of guarantee for this appliance
D	**GERÄTE-KENNKARTE**	Diese Darte ist, zusammen mit den Garantiebestimmungen die Ihr Handler Ihnen aushandigt, Ihr Garantieschein fur dieses Gerat
F	**CARTE D'INDENTIFICATION**	Associee aux conditions de garantie (qui vous sont remises par le revendeur) cette carte constitue le certificat de garantie de cet appareil
NL	**IDENTIFICATIEKAART**	Deze kaart vormt samen met de garantievoorwaarden (welke door uw dealer verstrekt worden), het garantiebewijs voor dit apparaat
I	**CARTE D'IDENTIFICAZIONE**	Questa cartolina rappresenta insieme alle condizioni di garanzia (da consegnare dal vostro rivenditore) il documento di garanzia per questo apparecchio
E	**TARJETA DE INDENTIFICACION**	La garantia de este aparato se compone de esta taneta y de las condiciones de garantia que le entregara su concesionario
P	**CARTAO DE INDENTIFICAÇAO**	Este cartao, em conjunto com as condiçoes de garantia em vigor (explicadas pelo seu vendedor) constituem o certificado de garantia do seu aparelho
DK	**I.D.KORT**	Dette kort, udfyldt af Deres forhandler er tilstrækkelig garantidokumentation for dette apparat
N	**IDENTIFIKASJOSKORT**	Dette kort, sammen med garantibetingelsene (som De får av forhandleren) utgjor garantibeviset for dette apparat.
S	**IDENTIFIERINGSKORT**	Detta kort tillsammans med garantivillkoren som Du får av radiohandlaren, utgor ett fullstandigt garantibevis for denna produkt
SF	**TUNNISTUSKORTTI**	Tämän tartteen takuutodistus muodostuu tästä kortista ja takuuehdoista (jälleenmyyjä antaa mukaan)
GR		

PHILIPS